

Supplementary material for the article:

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name	min	max	TCO	stdTCO	segments	num_AP	num_P	num_cross	reflective
1.1	3	7	4.333333	1.598611	ABCADEC	2	4	0	TRUE
1.2	3	9	5.333333	2.211083	BCADECf	2	4	0	TRUE
1.3	3	9	4.666667	2.211083	CADECfE	2	4	0	TRUE
1.4	3	9	5.333333	2.494438	ADECfEbl	2	4	0	TRUE
1.5	3	8	4.333333	1.972027	DECfEbDl	2	4	0	TRUE
1.6	3	8	4.333333	1.972027	ECfEbDfA	2	4	0	TRUE
1.7	3	9	5.333333	2.494438	CfEbDfAB	2	4	0	TRUE
1.8	3	9	4.666667	2.211083	FEbDfABC	2	4	0	TRUE
1.9	3	9	5.333333	2.211083	EbDfABCA	2	4	0	TRUE
1.10	3	7	4.333333	1.598611	bDfABCAl	2	4	0	TRUE
1.11	3	7	5	1.732051	DfABCADe	2	4	0	TRUE
1.12	3	7	5	1.732051	fABCADeC	2	4	0	TRUE
2.1	3	8	4.166667	1.771691	ABCADEC	3	3	0	TRUE
2.2	3	9	5.166667	2.409472	BCADECf	3	3	0	TRUE
2.3	3	9	4.5	2.061553	CADECfdl	3	3	0	TRUE
2.4	3	9	5.166667	2.409472	ADECfdBf	3	3	0	TRUE
2.5	3	8	4.166667	1.771691	DECfdBef	3	3	0	TRUE
2.6	3	8	4.833333	1.950783	ECfdBefA	3	3	0	TRUE
2.7	3	8	5.166667	1.950783	CfdBefAB	3	3	0	TRUE
2.8	3	7	4.5	1.5	FdBefABC	3	3	0	TRUE
2.9	3	7	5.166667	1.57233	dBefABCA	3	3	0	TRUE
2.10	3	7	4.5	1.5	BefABCAD	3	3	0	TRUE
2.11	3	8	5.166667	1.950783	efABCADe	3	3	0	TRUE
2.12	3	8	4.833333	1.950783	fABCADeC	3	3	0	TRUE
3.1	3	6	3.833333	1.067187	ABCADEbl	3	3	0	TRUE
3.2	3	9	4.833333	2.114763	BCADEbD	3	3	0	TRUE
3.3	3	9	5.166667	2.114763	CADEbDFc	3	3	0	TRUE
3.4	3	9	4.833333	2.114763	ADEbDFce	3	3	0	TRUE
3.5	3	6	3.833333	1.067187	DEbDFceF	3	3	0	TRUE
3.6	3	9	4.833333	2.114763	EbDFceFA	3	3	0	TRUE
3.7	3	9	5.166667	2.114763	bDFceFAB	3	3	0	TRUE
3.8	3	9	4.833333	2.114763	DFceFABC	3	3	0	TRUE
3.9	3	6	3.833333	1.067187	FceFABCA	3	3	0	TRUE
3.10	3	9	4.833333	2.114763	ceFABCAl	3	3	0	TRUE
3.11	3	9	5.166667	2.114763	eFABCADl	3	3	0	TRUE
3.12	3	9	4.833333	2.114763	FABCADe	3	3	0	TRUE

name	min	max	TCO	stdTCO	segments	num_AP	num_P
1.1	3	9	5.5	2.061553	ABCDEFBGFDHcGeH	2	6
1.2	3	13	6.75	2.989565	BCADEFBGFDHcGeHA	2	6
1.3	3	13	7.25	3.15238	CADEFBGFDHcGeHAB	2	6
1.4	3	13	6.75	3.15238	ADEFBGFDHcGeHABC	2	6
1.5	3	10	5.5	2.291288	DEFBGFDHcGeHABCA	2	6
1.6	3	10	6	2.738613	EFBGFDHcGeHABCAD	2	6
1.7	3	10	5.75	2.633913	FBGFDHcGeHABCADE	2	6
1.8	3	13	7	3.316625	BGFDHcGeHABCADEF	2	6
1.9	3	13	6.5	3.122499	GFDHcGeHABCADEFB	2	6
1.10	3	13	7.25	3.381937	FDHcGeHABCADEFBG	2	6
1.11	3	11	6	2.828427	DHcGeHABCADEFBGF	2	6
1.12	3	11	5.5	2.397916	HcGeHABCADEFBGFD	2	6
1.13	3	12	6.5	3.122499	cGeHABCADEFBGFDH	2	6
1.14	3	12	7	3.162278	GeHABCADEFBGFDHc	2	6
1.15	3	12	6.25	2.817357	eHABCADEFBGFDHcG	2	6
1.16	3	12	6.5	2.872281	HABCADEFBGFDHcGe	2	6
2.1	3	10	5.75	2.331845	ABCDEFBGeHcGFDH	2	6
2.2	3	13	7	3.082207	BCADEFBGeHcGFDHA	2	6
2.3	3	13	7.5	3.201562	CADEFBGeHcGFDHAB	2	6
2.4	3	13	7.25	3.230712	ADEFBGeHcGFDHABC	2	6
2.5	3	10	6	2.645751	DEFBGeHcGFDHABCA	2	6
2.6	3	10	5.5	2.179449	EFBGeHcGFDHABCAD	2	6
2.7	3	11	6.5	2.598076	FBGeHcGFDHABCADE	2	6
2.8	3	11	6.75	2.727178	BGeHcGFDHABCADEF	2	6
2.9	3	11	6.25	2.436699	GeHcGFDHABCADEFB	2	6
2.10	3	12	7.25	2.904738	eHcGFDHABCADEFBG	2	6
2.11	3	12	6.25	2.817357	HcGFDHABCADEFBGe	2	6
2.12	3	12	7	3.162278	cGFDHABCADEFBGeH	2	6
2.13	3	12	7.25	3.15238	GFDHABCADEFBGeHc	2	6
2.14	3	11	6.25	2.727178	FDHABCADEFBGeHcG	2	6
2.15	3	11	6	2.54951	DHABCADEFBGeHcGF	2	6
2.16	3	11	6.5	2.872281	HABCADEFBGeHcGFD	2	6
3.1	3	11	5.75	2.772634	ABCDEF CGFHdBHEg	2	6
3.2	3	13	7	3.427827	BCADEF CGFHdBHEgA	2	6
3.3	3	13	6.25	3.112475	CADEF CGFHdBHEgAB	2	6
3.4	3	13	7	3.427827	ADEF CGFHdBHEgABC	2	6
3.5	3	11	5.75	2.772634	DEF CGFHdBHEgABCA	2	6
3.6	3	11	6	2.872281	EFCGFHdBHEgABCAD	2	6
3.7	3	11	5.75	2.680951	FCGFHdBHEgABCADE	2	6
3.8	3	13	7	3.354102	CGFHdBHEgABCADEF	2	6
3.9	3	13	6.25	3.031089	GFHdBHEgABCADEF C	2	6
3.10	3	13	6.5	3.082207	FHdBHEgABCADEF CG	2	6
3.11	3	8	5.25	2.046338	HdBHEgABCADEF CGF	2	6
3.12	3	13	6.5	3.082207	dBHEgABCADEF CGFH	2	6
3.13	3	13	6.25	3.031089	BHEgABCADEF CGFHd	2	6
3.14	3	13	7	3.354102	HEgABCADEF CGFHdB	2	6

3.15	3	11	5.75	2.680951	EgABCADEF CGFHdBH	2	6
3.16	3	11	6	2.872281	gABCADEF CGFHdBHE	2	6
4.1	3	11	5.75	2.947457	ABCADEF CGeHGFbDH	2	6
4.2	3	13	7	3.570714	BCADEF CGeHGFbDHA	2	6
4.3	3	13	6	3.427827	CADEF CGeHGFbDHAB	2	6
4.4	3	13	6.75	3.76663	ADEF CGeHGFbDHABC	2	6
4.5	3	11	5.5	3.082207	DEF CGeHGFbDHABCA	2	6
4.6	3	11	5	2.598076	EFC GeHGFbDHABCAD	2	6
4.7	3	11	6	3.122499	FC GeHGFbDHABCADE	2	6
4.8	3	11	6.5	3.391165	C GeHGFbDHABCADEF	2	6
4.9	3	11	5.75	2.947457	GeHGFbDHABCADEF C	2	6
4.10	3	13	7	3.570714	eHGFbDHABCADEF CG	2	6
4.11	3	13	6	3.427827	HGFbDHABCADEF CGe	2	6
4.12	3	13	6.75	3.76663	GFbDHABCADEF CGeH	2	6
4.13	3	11	5.5	3.082207	FbDHABCADEF CGeHG	2	6
4.14	3	11	5	2.598076	bDHABCADEF CGeHGF	2	6
4.15	3	11	6	3.122499	DHABCADEF CGeHGFb	2	6
4.16	3	11	6.5	3.391165	HABCADEF CGeHGFbD	2	6
5.1	3	11	6.125	3.099899	ABCADEF GEHCfHbDg	3	5
5.2	3	13	7.375	3.568526	BCADEF GEHCfHbDgA	3	5
5.3	3	13	6.375	3.533324	CADEF GEHCfHbDgAB	3	5
5.4	3	13	6.375	3.533324	ADEF GEHCfHbDgABC	3	5
5.5	3	10	5.125	2.619041	DEF GEHCfHbDgABCA	3	5
5.6	3	8	4.625	1.932453	EFG EHCfHbDgABCAD	3	5
5.7	3	13	5.875	3.257204	FGEHCfHbDgABCADE	3	5
5.8	3	13	6.625	3.425547	GEHCfHbDgABCADEF	3	5
5.9	3	13	6.625	3.425547	EHCfHbDgABCADEF G	3	5
5.10	3	10	5.375	2.595067	HCfHbDgABCADEF GE	3	5
5.11	3	13	6.625	3.425547	CfHbDgABCADEF GEH	3	5
5.12	3	13	6.625	3.425547	fHbDgABCADEF GEHC	3	5
5.13	3	13	5.875	3.257204	HbDgABCADEF GEHCf	3	5
5.14	3	8	4.625	1.932453	bDgABCADEF GEHCfH	3	5
5.15	3	11	5.625	2.735759	DgABCADEF GEHCfHb	3	5
5.16	3	11	6.125	3.099899	gABCADEF GEHCfHbD	3	5
6.1	3	10	5.875	2.666341	ABCADEF GcFHEbDhG	3	5
6.2	3	13	7.125	3.295357	BCADEF GcFHEbDhGA	3	5
6.3	3	13	6.375	3.237958	CADEF GcFHEbDhGAB	3	5
6.4	3	13	6.875	3.295357	ADEF GcFHEbDhGABC	3	5
6.5	3	9	5.625	2.546444	DEF GcFHEbDhGABCA	3	5
6.6	3	9	5.375	2.287876	EFGcFHEbDhGABCAD	3	5
6.7	3	10	5.875	2.75851	FGcFHEbDhGABCADE	3	5
6.8	3	13	7.125	3.370367	GcFHEbDhGABCADEF	3	5
6.9	3	13	7.125	3.370367	cFHEbDhGABCADEF G	3	5
6.10	3	13	6.625	3.351772	FHEbDhGABCADEF Gc	3	5
6.11	3	10	5.375	2.496873	HEbDhGABCADEF GcF	3	5
6.12	3	11	6.375	2.912795	EbDhGABCADEF GcFH	3	5
6.13	3	11	5.875	2.57087	bDhGABCADEF GcFHE	3	5

6.14	3	11	6.625	2.781074	DhGABCADEFGcFHEb	3	5
6.15	3	11	6.875	2.891258	hGABCADEFGcFHEbD	3	5
6.16	3	10	5.875	2.666341	GABCADEFGcFHEbDh	3	5
7.1	3	10	5.5	2.291288	ABCADEFcGdHFbHeg	4	4
7.2	3	13	6.75	3.15238	BCADEFcGdHFbHegA	4	4
7.3	3	13	6	3	CADEFcGdHFbHegAB	4	4
7.4	3	13	6.75	3.381937	ADEFcGdHFbHegABC	4	4
7.5	3	11	5.5	2.598076	DEFcGdHFbHegABCA	4	4
7.6	3	11	6.25	2.904738	EFGcGdHFbHegABCAD	4	4
7.7	3	11	6	2.828427	FCGdHFbHegABCADE	4	4
7.8	3	11	6.75	3.230712	CGdHFbHegABCADEF	4	4
7.9	3	11	6	2.828427	GdHFbHegABCADEFc	4	4
7.10	3	11	6.25	2.904738	dHFbHegABCADEFcG	4	4
7.11	3	11	5.5	2.598076	HFbHegABCADEFcGd	4	4
7.12	3	13	6.75	3.381937	FbHegABCADEFcGdH	4	4
7.13	3	13	6	3	bHegABCADEFcGdHF	4	4
7.14	3	13	6.75	3.15238	HegABCADEFcGdHFb	4	4
7.15	3	10	5.5	2.291288	egABCADEFcGdHFbH	4	4
7.16	3	10	5.75	2.436699	gABCADEFcGdHFbHe	4	4
8.1	3	9	5.5	2.236068	ABCADEFcGeHbDHfg	4	4
8.2	3	13	6.75	3.112475	BCADEFcGeHbDHfgA	4	4
8.3	3	13	6.25	3.031089	CADEFcGeHbDHfgAB	4	4
8.4	3	13	7	3.354102	ADEFcGeHbDHfgABC	4	4
8.5	3	11	5.75	2.680951	DEFcGeHbDHfgABCA	4	4
8.6	3	11	5.75	2.680951	EFGcGeHbDHfgABCAD	4	4
8.7	3	11	6.75	2.947457	FCGeHbDHfgABCADE	4	4
8.8	3	11	6.75	2.947457	CGeHbDHfgABCADEF	4	4
8.9	3	11	6	2.5	GeHbDHfgABCADEFc	4	4
8.10	3	11	6.25	2.58602	eHbDHfgABCADEFcG	4	4
8.11	3	8	5.25	2.046338	HbDHfgABCADEFcGe	4	4
8.12	3	13	6.5	3.082207	bDHfgABCADEFcGeH	4	4
8.13	3	13	7	3.122499	DHfgABCADEFcGeHb	4	4
8.14	3	13	7	3.122499	HfgABCADEFcGeHbD	4	4
8.15	3	9	5.75	2.384848	fgABCADEFcGeHbDH	4	4
8.16	3	9	5.75	2.384848	gABCADEFcGeHbDHf	4	4
9.1	3	10	5.25	2.727178	ABCADEFgdBegHcFH	4	4
9.2	3	13	6.5	3.570714	BCADEFgdBegHcFHA	4	4
9.3	3	13	6.5	3.570714	CADEFgdBegHcFHAB	4	4
9.4	3	13	5.75	3.381937	ADEFgdBegHcFHABC	4	4
9.5	3	8	4.5	2.061553	DEFgdBegHcFHABCA	4	4
9.6	3	11	5.5	2.872281	EFGdBegHcFHABCAD	4	4
9.7	3	11	6.25	3.15238	FGdBegHcFHABCADE	4	4
9.8	3	11	6.25	3.15238	GdBegHcFHABCADEF	4	4
9.9	3	11	7.25	3.230712	dBegHcFHABCADEFg	4	4
9.10	3	11	6.25	3.15238	BegHcFHABCADEFgd	4	4
9.11	3	11	6.25	3.15238	egHcFHABCADEFgdB	4	4
9.12	3	11	5.5	2.872281	gHcFHABCADEFgDb	4	4

9.13	3	8	4.5	2.061553	HcFHABCADEFGdBeg	4	4
9.14	3	13	5.75	3.381937	cFHABCADEFGdBegH	4	4
9.15	3	13	6.5	3.570714	FHABCADEFGdBegHc	4	4
9.16	3	13	6.5	3.570714	HABCADEFGdBegHcF	4	4
10.1	3	11	5.5	3.041381	ABCADEFcGFHEgbDh	4	4
10.2	3	13	6.75	3.733296	BCADEFcGFHEgbDhA	4	4
10.3	3	13	5.75	3.526684	CADEFcGFHEgbDhAB	4	4
10.4	3	13	6.5	3.708099	ADEFcGFHEgbDhABC	4	4
10.5	3	10	5.25	2.904738	DEFcGFHEgbDhABCA	4	4
10.6	3	10	4.75	2.331845	EFcGFHEgbDhABCAD	4	4
10.7	3	10	5.25	2.904738	FcGFHEgbDhABCADE	4	4
10.8	3	13	6.5	3.708099	cGFHEgbDhABCADEF	4	4
10.9	3	13	5.75	3.526684	GFHEgbDhABCADEFc	4	4
10.10	3	13	6.75	3.733296	FHEgbDhABCADEFcG	4	4
10.11	3	11	5.5	3.041381	HEgbDhABCADEFcGF	4	4
10.12	3	11	6.25	3.307189	EgbDhABCADEFcGFH	4	4
10.13	3	11	5.75	2.989565	gbDhABCADEFcGFHE	4	4
10.14	3	10	4.75	2.331845	bDhABCADEFcGFHEg	4	4
10.15	3	11	5.75	2.989565	DhABCADEFcGFHEgb	4	4
10.16	3	11	6.25	3.307189	hABCADEFcGFHEgbD	4	4
11.1	3	10	4.25	2.222049	ABCADEbDFGeFHcgH	4	4
11.2	3	13	5.5	3.570714	BCADEbDFGeFHcgHA	4	4
11.3	3	13	6.25	3.799671	CADEbDFGeFHcgHAB	4	4
11.4	3	13	5.5	3.570714	ADEbDFGeFHcgHABC	4	4
11.5	3	10	4.25	2.222049	DEbDFGeFHcgHABCA	4	4
11.6	3	13	5.5	3.570714	EbDFGeFHcgHABCAD	4	4
11.7	3	13	6.25	3.799671	bDFGeFHcgHABCADE	4	4
11.8	3	13	5.5	3.570714	DFGeFHcgHABCADEb	4	4
11.9	3	10	4.25	2.222049	FGeFHcgHABCADEbD	4	4
11.10	3	13	5.5	3.570714	GeFHcgHABCADEbDF	4	4
11.11	3	13	6.25	3.799671	eFHcgHABCADEbDFG	4	4
11.12	3	13	5.5	3.570714	FHcgHABCADEbDFGe	4	4
11.13	3	10	4.25	2.222049	HcgHABCADEbDFGeF	4	4
11.14	3	13	5.5	3.570714	cgHABCADEbDFGeFH	4	4
11.15	3	13	6.25	3.799671	gHABCADEbDFGeFHc	4	4
11.16	3	13	5.5	3.570714	HABCADEbDFGeFHcg	4	4
12.1	4	11	6.5	2.397916	ABCDEAFGCHefBgdH	4	4
12.2	4	11	7.25	2.727178	BCDEAFGCHefBgdHA	4	4
12.3	4	11	6.5	2.397916	CDEAFGCHefBgdHAB	4	4
12.4	4	11	7	2.645751	DEAFGCHefBgdHABC	4	4
12.5	4	11	6.25	2.537223	EAFGCHefBgdHABCD	4	4
12.6	4	11	6.75	2.633913	AFGCHefBgdHABCDE	4	4
12.7	4	10	6	2.12132	FGCHefBgdHABCDEA	4	4
12.8	4	10	6.75	2.331845	GCHefBgdHABCDEAF	4	4
12.9	4	10	7.25	2.331845	CHefBgdHABCDEAFG	4	4
12.10	4	10	6.75	2.106537	HefBgdHABCDEAFGC	4	4
12.11	4	10	7.25	2.331845	efBgdHABCDEAFGCH	4	4

12.12	4	10	6.75	2.331845	fBgdHABCDEAFGCHe	4	4
12.13	4	10	6	2.12132	BgdHABCDEAFGCHef	4	4
12.14	4	11	6.75	2.633913	gdHABCDEAFGCHefB	4	4
12.15	4	11	6.25	2.537223	dHABCDEAFGCHefBg	4	4
12.16	4	11	7	2.645751	HABCDEAFGCHefBgd	4	4
13.1	3	11	6.5	2.95804	ABCDEAFGeHCfBhdG	4	4
13.2	3	11	7.25	3.230712	BCDEAFGeHCfBhdGA	4	4
13.3	3	11	6.5	2.95804	CDEAFGeHCfBhdGAB	4	4
13.4	3	11	6.5	2.95804	DEAFGeHCfBhdGABC	4	4
13.5	3	11	5.75	2.727178	EAFGeHCfBhdGABCD	4	4
13.6	3	11	6.75	2.989565	AFGeHCfBhdGABCDE	4	4
13.7	3	11	6	2.54951	FGeHCfBhdGABCDEA	4	4
13.8	3	11	6.75	2.727178	GeHCfBhdGABCDEAF	4	4
13.9	3	11	6.75	2.727178	eHCfBhdGABCDEAFG	4	4
13.10	3	10	5.75	2.436699	HCfBhdGABCDEAFGe	4	4
13.11	3	11	6.75	2.727178	CfBhdGABCDEAFGeH	4	4
13.12	3	11	6.75	2.727178	fBhdGABCDEAFGeHC	4	4
13.13	3	11	6	2.54951	BhdGABCDEAFGeHCf	4	4
13.14	3	11	6.75	2.989565	hdGABCDEAFGeHCfB	4	4
13.15	3	11	5.75	2.727178	dGABCDEAFGeHCfBh	4	4
13.16	3	11	6.5	2.95804	GABCDEAFGeHCfBhd	4	4
14.1	4	11	6	2.645751	ABCDEAFcGEHfBGdh	4	4
14.2	4	11	6.75	3.072051	BCDEAFcGEHfBGdhA	4	4
14.3	4	11	6	2.645751	CDEAFcGEHfBGdhAB	4	4
14.4	4	11	6.75	2.817357	DEAFcGEHfBGdhABC	4	4
14.5	4	11	6	2.645751	EAFcGEHfBGdhABCD	4	4
14.6	4	11	6.75	3.072051	AFcGEHfBGdhABCDE	4	4
14.7	4	11	6	2.645751	FcGEHfBGdhABCDEA	4	4
14.8	4	11	6.75	2.817357	cGEHfBGdhABCDEAF	4	4
14.9	4	11	6	2.645751	GEHfBGdhABCDEAFc	4	4
14.10	4	11	6.75	3.072051	EHfBGdhABCDEAFcG	4	4
14.11	4	11	6	2.645751	HfBGdhABCDEAFcGE	4	4
14.12	4	11	6.75	2.817357	fBGdhABCDEAFcGEH	4	4
14.13	4	11	6	2.645751	BGdhABCDEAFcGEHf	4	4
14.14	4	11	6.75	3.072051	GdhABCDEAFcGEHfB	4	4
14.15	4	11	6	2.645751	dhABCDEAFcGEHfBG	4	4
14.16	4	11	6.75	2.817357	hABCDEAFcGEHfBGd	4	4
15.1	3	10	5.625	2.446298	ABCADEFGbDHfcghE	5	3
15.2	3	13	6.875	3.218598	BCADEFGBDHfcghEA	5	3
15.3	3	13	7.125	3.218598	CADEFGbDHfcghEAB	5	3
15.4	3	13	6.625	3.199121	ADEFGbDHfcghEABC	5	3
15.5	3	10	5.375	2.287876	DEFGbDHfcghEABCA	5	3
15.6	3	11	6.125	2.934174	EFGbDHfcghEABCAD	5	3
15.7	3	11	5.625	2.546444	FGbDHfcghEABCADE	5	3
15.8	3	11	6.375	2.825664	GbDHfcghEABCADEF	5	3
15.9	3	11	6.875	2.891258	bDHfcghEABCADEFG	5	3
15.10	3	11	6.625	2.86956	DHfcghEABCADEFGb	5	3

15.11	3	10	5.875	2.368412	HfcghEABCADEFGbD	5	3
15.12	3	11	6.875	2.619041	fcghEABCADEFGbDH	5	3
15.13	3	11	6.125	2.471715	cghEABCADEFGbDHf	5	3
15.14	3	11	6.625	2.595067	ghEABCADEFGbDHfc	5	3
15.15	3	11	6.125	2.471715	hEABCADEFGbDHfcg	5	3
15.16	3	9	5.125	1.83286	EABCADEFGbDHfcgh	5	3
16.1	3	11	5.375	3.038811	ABCADEFcGeHfgbDH	5	3
16.2	3	13	6.625	3.772847	BCADEFcGeHfgbDHA	5	3
16.3	3	13	5.625	3.533324	CADEFcGeHfgbDHAB	5	3
16.4	3	13	6.375	3.739569	ADEFcGeHfgbDHABC	5	3
16.5	3	10	5.125	2.891258	DEFcGeHfgbDHABCA	5	3
16.6	3	10	4.625	2.287876	EFcGeHfgbDHABCAD	5	3
16.7	3	11	5.625	2.997395	FcGeHfgbDHABCADE	5	3
16.8	3	11	6.375	3.237958	cGeHfgbDHABCADEF	5	3
16.9	3	11	5.625	2.997395	GeHfgbDHABCADEFc	5	3
16.10	3	11	6.625	3.276336	eHfgbDHABCADEFcG	5	3
16.11	3	11	5.625	2.997395	HfgbDHABCADEFcGe	5	3
16.12	3	11	6.375	3.461846	fgbDHABCADEFcGeH	5	3
16.13	3	11	5.625	3.237958	gbDHABCADEFcGeHf	5	3
16.14	3	11	4.625	2.595067	bDHABCADEFcGeHfg	5	3
16.15	3	11	5.625	3.237958	DHABCADEFcGeHfgb	5	3
16.16	3	11	6.125	3.550968	HABCADEFcGeHfgbD	5	3
17.1	3	10	6.375	2.546444	ABCDEAFGeHbFchdG	5	3
17.2	3	11	7.125	2.891258	BCDEAFGeHbFchdGA	5	3
17.3	3	11	6.875	2.891258	CDEAFGeHbFchdGAB	5	3
17.4	3	11	6.375	2.825664	DEAFGeHbFchdGABC	5	3
17.5	3	11	5.625	2.546444	EAFGeHbFchdGABCD	5	3
17.6	3	11	6.625	2.86956	AFGeHbFchdGABCDE	5	3
17.7	3	11	5.875	2.368412	FGeHbFchdGABCDEA	5	3
17.8	3	11	6.625	2.86956	GeHbFchdGABCDEAF	5	3
17.9	3	11	6.625	2.86956	eHbFchdGABCDEAFG	5	3
17.10	3	11	5.625	2.546444	HbFchdGABCDEAFGe	5	3
17.11	3	11	6.625	2.86956	bFchdGABCDEAFGeH	5	3
17.12	3	11	6.875	2.891258	FchdGABCDEAFGeHb	5	3
17.13	3	11	6.125	2.471715	chdGABCDEAFGeHbF	5	3
17.14	3	11	6.625	2.595067	hdGABCDEAFGeHbFc	5	3
17.15	3	9	5.625	2.232571	dGABCDEAFGeHbFch	5	3
17.16	3	10	6.375	2.546444	GABCDEAFGeHbFchd	5	3
18.1	3	11	6.25	2.633913	ABCDEFGaceHfbghd	8	0
18.2	3	11	6.5	2.692582	BCDEFGaceHfbghdA	8	0
18.3	3	11	5.75	2.436699	CDEFGaceHfbghdAB	8	0
18.4	3	11	6.25	2.633913	DEFGaceHfbghdABC	8	0
18.5	3	9	5.25	2.106537	EFGaceHfbghdABCD	8	0
18.6	3	10	6	2.54951	FGaceHfbghdABCDE	8	0
18.7	3	10	6.5	2.692582	GaceHfbghdABCDEF	8	0
18.8	3	10	6.75	2.727178	aceHfbghdABCDEFG	8	0
18.9	3	10	6.5	2.692582	ceHfbghdABCDEFGa	8	0

18.10	3	10	6	2.54951	eHfbghdABCDEFGGac	8	0
18.11	3	9	5.25	2.106537	HfbghdABCDEFGGace	8	0
18.12	3	11	6.25	2.633913	fbghdABCDEFGGaceH	8	0
18.13	3	11	5.75	2.436699	bghdABCDEFGGaceHf	8	0
18.14	3	11	6.5	2.692582	ghdABCDEFGGaceHfb	8	0
18.15	3	11	6.25	2.633913	hdABCDEFGGaceHfbg	8	0
18.16	3	10	5.25	2.106537	dABCDEFGGaceHfbgh	8	0
19.1	3	11	6.25	3.455069	ABCDEFbGeHfgachd	8	0
19.2	3	11	5.25	3.072051	BCDEFbGeHfgachdA	8	0
19.3	3	11	6	3.391165	CDEFbGeHfgachdAB	8	0
19.4	3	11	5.25	3.072051	DEFbGeHfgachdABC	8	0
19.5	3	10	4.25	2.222049	EFbGeHfgachdABCD	8	0
19.6	3	11	5.25	3.072051	FbGeHfgachdABCDE	8	0
19.7	3	11	6	3.391165	bGeHfgachdABCDEF	8	0
19.8	3	11	5.25	3.072051	GeHfgachdABCDEFb	8	0
19.9	3	11	6.25	3.455069	eHfgachdABCDEFbG	8	0
19.10	3	11	5.25	3.072051	HfgachdABCDEFbGe	8	0
19.11	3	11	6	3.391165	fgachdABCDEFbGeH	8	0
19.12	3	11	5.25	3.072051	gachdABCDEFbGeHf	8	0
19.13	3	10	4.25	2.222049	achdABCDEFbGeHfg	8	0
19.14	3	11	5.25	3.072051	chdABCDEFbGeHfga	8	0
19.15	3	11	6	3.391165	hdABCDEFbGeHfgac	8	0
19.16	3	11	5.25	3.072051	dABCDEFbGeHfgach	8	0
20.1	3	9	5.25	2.222049	ABCADECfGBeHGDHf	2	6
20.2	3	13	6.5	3.201562	BCADECfGBeHGDHfA	2	6
20.3	3	13	6.5	3.201562	CADECfGBeHGDHfAB	2	6
20.4	3	13	7.5	3.5	ADECfGBeHGDHfABC	2	6
20.5	3	12	6.25	3.072051	DECfGBeHGDHfABCA	2	6
20.6	3	12	6	2.915476	ECfGBeHGDHfABCAD	2	6
20.7	3	12	6.75	3.072051	CFGBeHGDHfABCADE	2	6
20.8	3	10	5.75	2.436699	FGBeHGDHfABCADEC	2	6
20.9	3	10	5.75	2.436699	GBeHGDHfABCADECf	2	6
20.10	3	12	6.75	3.072051	BeHGDHfABCADECfG	2	6
20.11	3	12	6.75	3.072051	eHGDHfABCADECfGB	2	6
20.12	3	12	6	2.915476	HGDHfABCADECfGBe	2	6
20.13	3	13	7.25	3.455069	GDHfABCADECfGBeH	2	6
20.14	3	13	6.25	3.072051	DHfABCADECfGBeHG	2	6
20.15	3	13	6.5	3.201562	HfABCADECfGBeHGD	2	6
20.16	3	9	5.25	2.222049	fABCADECfGBeHGDH	2	6
21.1	3	11	5.5	2.54951	ABCADECfGDHGBeHf	2	6
21.2	3	13	6.75	3.344772	BCADECfGDHGBeHfA	2	6
21.3	3	13	6	2.95804	CADECfGDHGBeHfAB	2	6
21.4	3	13	7	3.427827	ADECfGDHGBeHfABC	2	6
21.5	3	12	5.75	2.772634	DECfGDHGBeHfABCA	2	6
21.6	3	12	6.5	3.24037	ECfGDHGBeHfABCAD	2	6
21.7	3	12	6.5	3.24037	CFGDHGBeHfABCADE	2	6
21.8	3	11	5.5	2.54951	FGDHGBeHfABCADEC	2	6

21.9	3	11	5.5	2.54951	GDHGBeHfABCADECF	2	6
21.10	3	13	6.75	3.344772	DHGBeHfABCADECFG	2	6
21.11	3	13	6	2.95804	HGBeHfABCADECFGD	2	6
21.12	3	13	7	3.427827	GBeHfABCADECFGDH	2	6
21.13	3	12	5.75	2.772634	BeHfABCADECFGDHG	2	6
21.14	3	12	6.5	3.24037	eHfABCADECFGDHGB	2	6
21.15	3	12	6.5	3.24037	HfABCADECFGDHGBe	2	6
21.16	3	11	5.5	2.54951	fABCADECFGDHGBeH	2	6
22.1	3	12	5.5	2.872281	ABCADECFGEHGdBHf	2	6
22.2	3	13	6.75	3.596874	BCADECFCGEHGdBHfA	2	6
22.3	3	13	5.75	3.072051	CADECFCGEHGdBHfAB	2	6
22.4	3	13	6.75	3.596874	ADECFCGEHGdBHfABC	2	6
22.5	3	12	5.5	2.872281	DECFCGEHGdBHfABCA	2	6
22.6	3	12	5.5	2.872281	ECFCGEHGdBHfABCAD	2	6
22.7	3	12	6.5	3.5	CFGEHGdBHfABCADE	2	6
22.8	3	12	5.5	2.872281	FGEHGdBHfABCADEC	2	6
22.9	3	12	5.5	2.872281	GEHGdBHfABCADECF	2	6
22.10	3	13	6.75	3.596874	EHGdBHfABCADECFG	2	6
22.11	3	13	5.75	3.072051	HGdBHfABCADECFGE	2	6
22.12	3	13	6.75	3.596874	GdBHfABCADECFGEH	2	6
22.13	3	12	5.5	2.872281	dBHfABCADECFGEHG	2	6
22.14	3	12	5.5	2.872281	BHfABCADECFGEHGd	2	6
22.15	3	12	6.5	3.5	HfABCADECFGEHGdB	2	6
22.16	3	12	5.5	2.872281	fABCADECFGEHGdBH	2	6
23.1	3	9	5.25	2.277608	ABCADEFcGdBfHGEH	2	6
23.2	3	13	6.5	3.24037	BCADEFcGdBfHGEHA	2	6
23.3	3	13	6.25	3.112475	CADEFcGdBfHGEHAB	2	6
23.4	3	13	7	3.427827	ADEFcGdBfHGEHABC	2	6
23.5	3	11	5.75	2.772634	DEFcGdBfHGEHABCA	2	6
23.6	3	11	6.5	3	EFCGdBfHGEHABCAD	2	6
23.7	3	11	6.25	2.861381	FCGdBfHGEHABCADE	2	6
23.8	3	11	7	2.95804	CGdBfHGEHABCADEF	2	6
23.9	3	10	6.25	2.58602	GdBfHGEHABCADEFc	2	6
23.10	3	11	7	2.95804	dBfHGEHABCADEFcG	2	6
23.11	3	11	6.25	2.861381	BfHGEHABCADEFcGd	2	6
23.12	3	11	6.5	3	fHGEHABCADEFcGdB	2	6
23.13	3	11	5.75	2.772634	HGEHABCADEFcGdBf	2	6
23.14	3	13	7	3.427827	GEHABCADEFcGdBfH	2	6
23.15	3	13	6.25	3.112475	EHABCADEFcGdBfHG	2	6
23.16	3	13	6.5	3.24037	HABCADEFcGdBfHGE	2	6
24.1	3	9	5.75	2.106537	ABCDAEFCGBfHdGEH	2	6
24.2	3	12	6.75	2.817357	BCDAEFCGBfHdGEHA	2	6
24.3	3	12	6.75	2.817357	CDAEFCGBfHdGEHAB	2	6
24.4	3	12	7.5	3.041381	DAEFCGBfHdGEHABC	2	6
24.5	3	12	7.25	3.072051	AEFCGBfHdGEHABCD	2	6
24.6	3	11	6.25	2.633913	EFCGBfHdGEHABCDA	2	6
24.7	3	11	6	2.44949	FCGBfHdGEHABCDAE	2	6

24.8	4	11	7	2.645751	CGBfHdGEHABCD AEF	2	6
24.9	4	11	6.25	2.222049	GBfHdGEHABCD AEF C	2	6
24.10	4	11	7	2.645751	BfHdGEHABCD AEF C G	2	6
24.11	4	11	7	2.645751	fHdGEHABCD AEF C G B	2	6
24.12	3	11	6	2.44949	HdGEHABCD AEF C G B f	2	6
24.13	3	12	7	3	dGEHABCD AEF C G B f H	2	6
24.14	3	12	7.25	2.989565	GEHABCD AEF C G B f H d	2	6
24.15	3	12	6.5	2.692582	EHABCD AEF C G B f H d G	2	6
24.16	3	12	6.75	2.817357	HABCD AEF C G B f H d G E	2	6
25.1	4	12	6	2.54951	ABCD AEF C G E H d G B f H	2	6
25.2	4	12	7	3.082207	BCD AEF C G E H d G B f H A	2	6
25.3	4	12	6	2.54951	CDAEF C G E H d G B f H A B	2	6
25.4	4	12	6.75	2.989565	DAEF C G E H d G B f H A B C	2	6
25.5	4	12	6.75	2.989565	AEF C G E H d G B f H A B C D	2	6
25.6	4	11	5.75	2.331845	EFCGEHdGBfHABCD A	2	6
25.7	4	12	6.75	2.989565	FCGEHdGBfHABCD A E	2	6
25.8	4	12	6.75	2.989565	CGEHdGBfHABCD A E F	2	6
25.9	4	12	6	2.54951	GEHdGBfHABCD A E F C	2	6
25.10	4	12	7	3.082207	EHdGBfHABCD A E F C G	2	6
25.11	4	12	6	2.54951	HdGBfHABCD A E F C G E	2	6
25.12	4	12	6.75	2.989565	dGBfHABCD A E F C G E H	2	6
25.13	4	12	6.75	2.989565	GBfHABCD A E F C G E H d	2	6
25.14	4	11	5.75	2.331845	BfHABCD A E F C G E H d G	2	6
25.15	4	12	6.75	2.989565	fHABCD A E F C G E H d G B	2	6
25.16	4	12	6.75	2.989565	HABCD A E F C G E H d G B f	2	6
26.1	3	11	5.75	2.727178	ABCD A E F D G C f H G b E H	2	6
26.2	3	12	6.75	3.307189	BCD A E F D G C f H G b E H A	2	6
26.3	3	12	5.75	3.072051	CDA E F D G C f H G b E H A B	2	6
26.4	3	12	6	3.24037	DA E F D G C f H G b E H A B C	2	6
26.5	3	12	7	3.674235	A E F D G C f H G b E H A B C D	2	6
26.6	3	12	6	3.24037	E F D G C f H G b E H A B C D A	2	6
26.7	3	12	5.75	3.072051	F D G C f H G b E H A B C D A E	2	6
26.8	3	12	6.75	3.307189	D G C f H G b E H A B C D A E F	2	6
26.9	3	11	5.75	2.727178	G C f H G b E H A B C D A E F D	2	6
26.10	3	12	6.75	3.307189	C f H G b E H A B C D A E F D G	2	6
26.11	3	12	6.5	3.201562	f H G b E H A B C D A E F D G C	2	6
26.12	3	12	5.5	2.872281	H G b E H A B C D A E F D G C f	2	6
26.13	3	12	6.5	3.5	G b E H A B C D A E F D G C f H	2	6
26.14	3	12	5.5	2.872281	b E H A B C D A E F D G C f H G	2	6
26.15	3	12	6.5	3.201562	E H A B C D A E F D G C f H G b	2	6
26.16	3	12	6.75	3.307189	H A B C D A E F D G C f H G b E	2	6
27.1	3	8	5.125	2.027159	A B C A D E C F G E b H G d H f	3	5
27.2	3	13	6.375	3.119996	B C A D E C F G E b H G d H f A	3	5
27.3	3	13	6.125	3.05931	C A D E C F G E b H G d H f A B	3	5
27.4	3	13	7.125	3.479853	A D E C F G E b H G d H f A B C	3	5
27.5	3	12	5.875	2.891258	D E C F G E b H G d H f A B C A	3	5
27.6	3	12	5.625	2.781074	E C F G E b H G d H f A B C A D	3	5

27.7	3	12	6.625	3.38886	CFGEBHGdHfABCDE	3	5
27.8	3	12	5.625	2.781074	FGEbHGdHfABCDEC	3	5
27.9	3	12	5.625	2.781074	GEbHGdHfABCDECF	3	5
27.10	3	12	6.625	3.38886	EbHGdHfABCDECFG	3	5
27.11	3	12	5.625	2.781074	bHGdHfABCDECFGE	3	5
27.12	3	12	5.875	2.891258	HGdHfABCDECFGEb	3	5
27.13	3	13	7.125	3.479853	GdHfABCDECFGEbH	3	5
27.14	3	13	6.125	3.05931	dHfABCDECFGEbHG	3	5
27.15	3	13	6.375	3.119996	HfABCDECFGEbHGd	3	5
27.16	3	8	5.125	2.027159	fABCDECFGEbHGdH	3	5
28.1	3	7	5.125	1.690969	ABCDECFGbDHGeHf	3	5
28.2	3	13	6.375	2.912795	BCADECfGbDHGeHfA	3	5
28.3	3	13	6.375	2.912795	CADECfGbDHGeHfAB	3	5
28.4	3	13	7.375	3.276336	ADECfGbDHGeHfABC	3	5
28.5	3	12	6.125	2.75851	DECfGbDHGeHfABCA	3	5
28.6	3	12	6.625	3.038811	ECfGbDHGeHfABCAD	3	5
28.7	3	12	6.625	3.038811	CFGbDHGeHfABCDE	3	5
28.8	3	10	5.625	2.341874	FGbDHGeHfABCDEC	3	5
28.9	3	10	5.625	2.341874	GbDHGeHfABCDECF	3	5
28.10	3	12	6.625	3.038811	bDHGeHfABCDECFG	3	5
28.11	3	12	6.625	3.038811	DHGeHfABCDECFGb	3	5
28.12	3	12	6.125	2.75851	HGeHfABCDECFGbD	3	5
28.13	3	13	7.375	3.276336	GeHfABCDECFGbDH	3	5
28.14	3	13	6.375	2.912795	eHfABCDECFGbDHG	3	5
28.15	3	13	6.375	2.912795	HfABCDECFGbDHGe	3	5
28.16	3	7	5.125	1.690969	fABCDECFGbDHGeH	3	5
29.1	3	11	5.375	2.595067	ABCDECFGdHGEBHf	3	5
29.2	3	13	6.625	3.425547	BCADECfGdHGEBHfA	3	5
29.3	3	13	5.625	3.159806	CADECfGdHGEBHfAB	3	5
29.4	3	13	6.625	3.705992	ADECfGdHGEBHfABC	3	5
29.5	3	12	5.375	2.955398	DECfGdHGEBHfABCA	3	5
29.6	3	12	6.125	3.257204	ECfGdHGEBHfABCAD	3	5
29.7	3	12	6.375	3.38886	CFGdHGEBHfABCDE	3	5
29.8	3	10	5.375	2.689679	FGdHGEBHfABCDEC	3	5
29.9	3	10	5.375	2.689679	GdHGEBHfABCDECF	3	5
29.10	3	13	6.625	3.497767	dHGEBHfABCDECFG	3	5
29.11	3	13	5.875	3.333073	HGEBHfABCDECFGd	3	5
29.12	3	13	6.875	3.789377	GEbHfABCDECFGdH	3	5
29.13	3	12	5.625	3.159806	EbHfABCDECFGdHG	3	5
29.14	3	12	5.375	2.955398	bHfABCDECFGdHGE	3	5
29.15	3	12	6.375	3.314268	HfABCDECFGdHGEb	3	5
29.16	3	11	5.375	2.595067	fABCDECFGdHGEBH	3	5
30.1	3	8	5.625	1.798437	ABCDEFBGEHcGdfH	3	5
30.2	4	13	6.875	2.75851	BCADEFBGEHcGdfHA	3	5
30.3	4	13	7.375	2.912795	CADEFBGEHcGdfHAB	3	5
30.4	4	13	7.125	2.934174	ADEFBGEHcGdfHABC	3	5
30.5	3	10	5.875	2.204399	DEFBGEHcGdfHABCA	3	5

30.6	3	10	5.625	2.05776	EFBGEHcGdfHABCAD	3	5
30.7	3	12	6.625	2.825664	FBGEHcGdfHABCADE	3	5
30.8	3	12	6.625	2.825664	BGEHcGdfHABCADEF	3	5
30.9	3	12	6.125	2.52178	GEHcGdfHABCADEFB	3	5
30.10	3	12	7.125	3.018174	EHcGdfHABCADEFBG	3	5
30.11	3	12	6.125	2.52178	HcGdfHABCADEFBGE	3	5
30.12	3	12	6.875	2.934174	cGdfHABCADEFBGEH	3	5
30.13	3	12	7.125	2.934174	GdfHABCADEFBGEHc	3	5
30.14	3	11	6.125	2.420615	dfHABCADEFBGEHcG	3	5
30.15	3	11	6.375	2.496873	fHABCADEFBGEHcGd	3	5
30.16	3	11	6.375	2.496873	HABCADEFBGEHcGdf	3	5
31.1	3	9	5.375	2.287876	ABCADEFBGdfHcGEH	3	5
31.2	3	13	6.625	3.199121	BCADEFBGdfHcGEHA	3	5
31.3	3	13	7.125	3.370367	CADEFBGdfHcGEHAB	3	5
31.4	3	13	6.625	3.351772	ADEFBGdfHcGEHABC	3	5
31.5	3	10	5.375	2.496873	DEFBGdfHcGEHABCA	3	5
31.6	3	10	6.125	2.847696	EFBGdfHcGEHABCAD	3	5
31.7	3	10	5.875	2.666341	FBGdfHcGEHABCADE	3	5
31.8	3	11	6.875	2.891258	BGdfHcGEHABCADEF	3	5
31.9	3	11	6.375	2.642797	GdfHcGEHABCADEFB	3	5
31.10	3	11	7.125	2.97647	dfHcGEHABCADEFBG	3	5
31.11	3	11	6.375	2.912795	fHcGEHABCADEFBGd	3	5
31.12	3	11	5.375	2.496873	HcGEHABCADEFBGdf	3	5
31.13	3	12	6.375	3.237958	cGEHABCADEFBGdfH	3	5
31.14	3	12	6.875	3.295357	GEHABCADEFBGdfHc	3	5
31.15	3	12	6.125	2.934174	EHABCADEFBGdfHcG	3	5
31.16	3	12	6.375	3.079671	HABCADEFBGdfHcGE	3	5
32.1	3	10	5.875	2.619041	ABCADEFGCeHGbdHf	3	5
32.2	3	13	7.125	3.257204	BCADEFGCeHGbdHfA	3	5
32.3	3	13	6.375	3.199121	CADEFGCeHGbdHfAB	3	5
32.4	3	13	6.875	3.407253	ADEFGCeHGbdHfABC	3	5
32.5	3	10	5.625	2.689679	DEFGCeHGbdHfABCA	3	5
32.6	3	10	5.375	2.446298	EFGCeHGbdHfABCAD	3	5
32.7	3	11	6.375	2.86956	FGCeHGbdHfABCADE	3	5
32.8	3	11	6.125	2.803458	GCeHGbdHfABCADEF	3	5
32.9	3	12	7.125	3.257204	CeHGbdHfABCADEFG	3	5
32.10	3	12	6.625	3.079671	eHGbdHfABCADEFGC	3	5
32.11	3	12	5.625	2.781074	HGbdHfABCADEFGCe	3	5
32.12	3	12	6.625	3.38886	GbdHfABCADEFGCeH	3	5
32.13	3	12	5.625	2.781074	bDHfABCADEFGCeHG	3	5
32.14	3	12	6.375	3.038811	DHfABCADEFGCeHGb	3	5
32.15	3	12	6.625	3.159806	HfABCADEFGCeHGbd	3	5
32.16	3	10	5.625	2.496873	fABCADEFGCeHGbdH	3	5
33.1	3	10	5.875	2.52178	ABCADEFGdBHGEcHf	3	5
33.2	3	13	7.125	3.179524	BCADEFGdBHGEcHfA	3	5
33.3	3	13	7.125	3.179524	CADEFGdBHGEcHfAB	3	5
33.4	3	13	6.375	3.119996	ADEFGdBHGEcHfABC	3	5

33.5	3	8	5.125	2.027159	DEFGdBHGEcHfABCA	3	5
33.6	3	11	6.125	2.619041	EFGdBHGEcHfABCAD	3	5
33.7	3	11	6.375	2.781074	FGdBHGEcHfABCADE	3	5
33.8	3	11	6.125	2.712817	GdBHGEcHfABCADEF	3	5
33.9	3	12	7.125	3.179524	dBHGEcHfABCADEFG	3	5
33.10	3	12	6.125	3.05931	BHGEcHfABCADEFGd	3	5
33.11	3	12	6.125	3.05931	HGEcHfABCADEFGdB	3	5
33.12	3	12	7.125	3.479853	GEcHfABCADEFGdBH	3	5
33.13	3	12	6.125	3.05931	EcHfABCADEFGdBHG	3	5
33.14	3	12	5.875	2.891258	cHfABCADEFGdBHGE	3	5
33.15	3	12	6.625	3.079671	HfABCADEFGdBHGEc	3	5
33.16	3	10	5.625	2.394656	fABCADEFGdBHGEcH	3	5
34.1	3	9	5.625	2.546444	ABCADEFGdBfHcGEH	3	5
34.2	3	13	6.875	3.295357	BCADEFgdBfHcGEHA	3	5
34.3	3	13	6.875	3.295357	CADEFgdBfHcGEHAB	3	5
34.4	3	13	6.375	3.237958	ADEFgdBfHcGEHABC	3	5
34.5	3	9	5.125	2.204399	DEFGdBfHcGEHABCA	3	5
34.6	3	11	6.125	2.75851	EFGdBfHcGEHABCAD	3	5
34.7	3	11	5.875	2.57087	FGdBfHcGEHABCADE	3	5
34.8	3	11	6.875	2.803458	GdBfHcGEHABCADEF	3	5
34.9	3	11	7.375	2.955398	dBfHcGEHABCADEFG	3	5
34.10	3	11	6.375	2.912795	BfHcGEHABCADEFGd	3	5
34.11	3	11	6.375	2.912795	fHcGEHABCADEFGdB	3	5
34.12	3	10	5.375	2.496873	HcGEHABCADEFGdBf	3	5
34.13	3	12	6.375	3.237958	cGEHABCADEFGdBfH	3	5
34.14	3	12	6.875	3.295357	GEHABCADEFGdBfHc	3	5
34.15	3	12	6.375	3.079671	EHABCADEFGdBfHcG	3	5
34.16	3	12	6.625	3.199121	HABCADEFGdBfHcGE	3	5
35.1	4	10	6.375	2.394656	ABCDAEFGCHeBgdHF	3	5
35.2	4	12	7.375	2.825664	BCDAEFGCHeBgdHFA	3	5
35.3	4	12	6.875	2.666341	CDAEFGCHeBgdHFAB	3	5
35.4	4	12	7.375	2.825664	DAEFGCHeBgdHFABC	3	5
35.5	4	12	6.875	2.847696	AEFGCHeBgdHFABCD	3	5
35.6	4	10	5.875	2.204399	EFGCHeBgdHFABCDA	3	5
35.7	4	10	6.625	2.446298	FGCHeBgdHFABCDAE	3	5
35.8	4	10	6.375	2.287876	GCHeBgdHFABCDAEF	3	5
35.9	4	10	7.125	2.368412	CHeBgdHFABCDAEFG	3	5
35.10	4	10	6.625	2.117634	HeBgdHFABCDAEFGC	3	5
35.11	4	11	7.375	2.446298	eBgdHFABCDAEFGCH	3	5
35.12	4	11	6.625	2.446298	BgdHFABCDAEFGCHe	3	5
35.13	4	11	7.125	2.666341	gdHFABCDAEFGCHeB	3	5
35.14	4	11	6.375	2.595067	dHFABCDAEFGCHeBg	3	5
35.15	4	11	6.875	2.666341	HFABCDAEFGCHeBgd	3	5
35.16	4	10	6.125	2.204399	FABCDAEFGCHeBgdH	3	5
36.1	3	11	5.5	2.54951	ABCADEFDGCHeGbfh	4	4
36.2	3	13	6.75	3.344772	BCADEFDGCHeGbfhA	4	4
36.3	3	13	5.75	3.112475	CADEFDGCHeGbfhAB	4	4

36.4	3	13	6	3.278719	ADEFDGCHeGbfhABC	4	4
36.5	3	9	4.75	2.046338	DEFDGCHeGbfhABCA	4	4
36.6	3	13	6	3.278719	EFDGCHeGbfhABCAD	4	4
36.7	3	13	6.5	3.391165	FDGCHeGbfhABCADE	4	4
36.8	3	13	6.5	3.391165	DGCHeGbfhABCADEF	4	4
36.9	3	9	5.25	2.487469	GCHeGbfhABCADEFD	4	4
36.10	3	12	6.25	3.269174	CHeGbfhABCADEFDG	4	4
36.11	3	12	6	3.122499	HeGbfhABCADEFDGC	4	4
36.12	3	12	6.75	3.269174	eGbfhABCADEFDGCH	4	4
36.13	3	12	6.25	3.191786	GbfhABCADEFDGCHe	4	4
36.14	3	10	5.25	2.384848	bfhABCADEFDGCHeG	4	4
36.15	3	11	6.25	2.861381	fhABCADEFDGCHeGb	4	4
36.16	3	11	6.25	2.861381	hABCADEFDGCHeGbf	4	4
37.1	3	10	5.75	2.537223	ABCADEFGECHfbDgh	4	4
37.2	3	13	7	3.24037	BCADEFGECHfbDghA	4	4
37.3	3	13	6.25	3.15238	CADEFGECHfbDghAB	4	4
37.4	3	13	6.5	3.278719	ADEFGECHfbDghABC	4	4
37.5	3	9	5.25	2.331845	DEFGECHfbDghABCA	4	4
37.6	3	9	5	2	EFGECHfbDghABCAD	4	4
37.7	3	13	6.25	3.15238	FGECHfbDghABCADE	4	4
37.8	3	13	7	3.24037	GECHfbDghABCADEF	4	4
37.9	3	13	7.25	3.230712	ECHfbDghABCADEFG	4	4
37.10	3	10	6	2.645751	CHfbDghABCADEFGE	4	4
37.11	3	10	5.75	2.436699	HfbDghABCADEFGEC	4	4
37.12	3	10	6.5	2.692582	fbDghABCADEFGECH	4	4
37.13	3	10	5.75	2.436699	bDghABCADEFGECHf	4	4
37.14	3	10	6.5	2.692582	DghABCADEFGECHfb	4	4
37.15	3	10	6.75	2.817357	ghABCADEFGECHfbD	4	4
37.16	3	10	6.5	2.783882	hABCADEFGECHfbDg	4	4
38.1	3	10	5.75	2.633913	ABCADEFGceHfbDHG	4	4
38.2	3	13	7	3.316625	BCADEFGceHfbDHGA	4	4
38.3	3	13	6.25	3.230712	CADEFGceHfbDHGAB	4	4
38.4	3	13	6.75	3.307189	ADEFGceHfbDHGABC	4	4
38.5	3	9	5.5	2.5	DEFGceHfbDHGABCA	4	4
38.6	3	9	5.25	2.222049	EFGceHfbDHGABCAD	4	4
38.7	3	11	6.25	2.727178	FGceHfbDHGABCADE	4	4
38.8	3	11	7	2.828427	GceHfbDHGABCADEF	4	4
38.9	3	11	7	2.828427	ceHfbDHGABCADEFG	4	4
38.10	3	11	6.5	2.783882	eHfbDHGABCADEFGc	4	4
38.11	3	10	5.5	2.397916	HfbDHGABCADEFGce	4	4
38.12	3	12	6.5	3.122499	fbDHGABCADEFGceH	4	4
38.13	3	12	5.75	2.904738	bDHGABCADEFGceHf	4	4
38.14	3	12	6.5	3.122499	DHGABCADEFGceHfb	4	4
38.15	3	12	6.75	3.230712	HGABCADEFGceHfbD	4	4
38.16	3	10	5.75	2.633913	GABCADEFGceHfbDH	4	4
39.1	3	9	5.5	2.179449	ABCADEFGdBfHcegH	4	4
39.2	3	13	6.75	3.072051	BCADEFGdBfHcegHA	4	4

39.3	3	13	6.75	3.072051	CADEFGdBFHcegHAB	4	4
39.4	3	13	6.25	2.989565	ADEFGdBFHcegHABC	4	4
39.5	3	8	5	1.732051	DEFGdBFHcegHABCA	4	4
39.6	3	11	6	2.44949	EFGdBFHcegHABCAD	4	4
39.7	3	11	6	2.44949	FGdBFHcegHABCADE	4	4
39.8	3	12	7		3 GdBFHcegHABCADEF	4	4
39.9	3	12	7.25	2.989565	dBFHcegHABCADEFG	4	4
39.10	3	12	6.25	2.904738	BFHcegHABCADEFGd	4	4
39.11	3	12	6.25	2.904738	FHcegHABCADEFGdB	4	4
39.12	3	8	5.25	1.984313	HcegHABCADEFGdBF	4	4
39.13	3	12	6.25	2.904738	cegHABCADEFGdBFH	4	4
39.14	3	12	6.75	2.989565	egHABCADEFGdBFHc	4	4
39.15	3	12	6.75	2.989565	gHABCADEFGdBFHce	4	4
39.16	3	12	6.5	2.95804	HABCADEFGdBFHceg	4	4
40.1	3	10	5.75	2.633913	ABCADEFGdBHegcHF	4	4
40.2	3	13	7	3.316625	BCADEFGdBHegcHFA	4	4
40.3	3	13	7	3.316625	CADEFGdBHegcHFAB	4	4
40.4	3	13	6.25	3.230712	ADEFGdBHegcHFABC	4	4
40.5	3	9	5	2.12132	DEFGdBHegcHFABCA	4	4
40.6	3	11	6	2.738613	EFGdBHegcHFABCAD	4	4
40.7	3	11	6.5	2.872281	FGdBHegcHFABCADE	4	4
40.8	3	11	6.25	2.727178	GdBHegcHFABCADEF	4	4
40.9	3	11	7	2.828427	dBHegcHFABCADEFG	4	4
40.10	3	10	6	2.645751	BHegcHFABCADEFGd	4	4
40.11	3	10	6	2.645751	HegcHFABCADEFGdB	4	4
40.12	3	12	7	3.162278	egcHFABCADEFGdBH	4	4
40.13	3	12	6.5	3.122499	gcHFABCADEFGdBHe	4	4
40.14	3	12	5.75	2.904738	cHFABCADEFGdBHeg	4	4
40.15	3	12	6.5	3.122499	HFABCADEFGdBHegc	4	4
40.16	3	10	5.5	2.397916	FABCADEFGdBHegcH	4	4
41.1	3	9	5	2.397916	ABCADEFbDGfHcgEH	4	4
41.2	3	13	6.25	3.418699	BCADEFbDGfHcgEHA	4	4
41.3	3	13	6.75	3.49106	CADEFbDGfHcgEHAB	4	4
41.4	3	13	6.25	3.418699	ADEFbDGfHcgEHABC	4	4
41.5	3	9	5	2.397916	DEFbDGfHcgEHABCA	4	4
41.6	3	12	6	3.278719	EFbDGfHcgEHABCAD	4	4
41.7	3	12	5.75	3.112475	FbDGfHcgEHABCADE	4	4
41.8	3	12	6.75	3.344772	bDGfHcgEHABCADEF	4	4
41.9	3	12	6.25	3.269174	DGfHcgEHABCADEFb	4	4
41.10	3	11	5.25	2.487469	GfHcgEHABCADEFbD	4	4
41.11	3	11	6.25	2.947457	fHcgEHABCADEFbDG	4	4
41.12	3	11	5.25	2.487469	HcgEHABCADEFbDGf	4	4
41.13	3	12	6.25	3.269174	cgEHABCADEFbDGfH	4	4
41.14	3	12	6.75	3.344772	gEHABCADEFbDGfHc	4	4
41.15	3	12	5.75	3.112475	EHABCADEFbDGfHcg	4	4
41.16	3	12	6	3.278719	HABCADEFbDGfHcgE	4	4
42.1	3	11	5.5	2.915476	ABCADEFcGEHDgbhF	4	4

42.2	3	13	6.75	3.63146	BCADEFcGEHDgbhFA	4	4
42.3	3	13	5.75	3.418699	CADEFcGEHDgbhFAB	4	4
42.4	3	13	6.5	3.605551	ADEFcGEHDgbhFABC	4	4
42.5	3	10	5.25	2.772634	DEFcGEHDgbhFABCA	4	4
42.6	3	10	5.5		3 EFcGEHDgbhFABCAD	4	4
42.7	3	12	6.5	3.605551	FcGEHDgbhFABCADE	4	4
42.8	3	12	6.25	3.49106	cGEHDgbhFABCADEF	4	4
42.9	3	12	5.5	3.24037	GEHDgbhFABCADEFc	4	4
42.10	3	12	6.5	3.535534	EHDgbhFABCADEFcG	4	4
42.11	3	11	5.5	2.915476	HDgbhFABCADEFcGE	4	4
42.12	3	11	6.5	3.24037	DgbhFABCADEFcGEH	4	4
42.13	3	11	6.25	3.112475	gbhFABCADEFcGEHD	4	4
42.14	3	11	5.25	2.680951	bhFABCADEFcGEHDg	4	4
42.15	3	11	6.25	3.112475	hFABCADEFcGEHDgb	4	4
42.16	3	11	5.25	2.680951	FABCADEFcGEHDgbh	4	4
43.1	3	11	6.25	2.727178	ABCDAEFGdHFbEhcG	4	4
43.2	3	12	7.25	3.15238	BCDAEFGdHFbEhcGA	4	4
43.3	3	12	6.75	3.15238	CDAEFGdHFbEhcGAB	4	4
43.4	3	12	5.75	2.904738	DAEFGdHFbEhcGABC	4	4
43.5	3	12	6.5	3.122499	AEFGdHFbEhcGABCD	4	4
43.6	3	10	5.5	2.397916	EFGdHFbEhcGABCDA	4	4
43.7	3	10	5.75	2.633913	FGdHFbEhcGABCDAE	4	4
43.8	3	12	6.75	3.230712	GdHFbEhcGABCDAEF	4	4
43.9	3	12	6.75	3.230712	dHFbEhcGABCDAEFG	4	4
43.10	3	12	6	3.082207	HFbEhcGABCDAEFGd	4	4
43.11	3	12	7	3.24037	FbEhcGABCDAEFGdH	4	4
43.12	3	11	6	2.738613	bEhcGABCDAEFGdHF	4	4
43.13	3	11	6.5	2.872281	EhcGABCDAEFGdHFb	4	4
43.14	3	11	6.25	2.727178	hcGABCDAEFGdHFbE	4	4
43.15	3	9	5.25	2.222049	cGABCDAEFGdHFbEh	4	4
43.16	3	11	6.25	2.727178	GABCDAEFGdHFbEhc	4	4
44.1	3	10	5.125	2.204399	ABCADEFbDGHeGcfh	5	3
44.2	3	13	6.375	3.237958	BCADEFbDGHeGcfhA	5	3
44.3	3	13	6.875	3.295357	CADEFbDGHeGcfhAB	5	3
44.4	3	13	6.125	3.179524	ADEFbDGHeGcfhABC	5	3
44.5	3	9	4.875	1.964529	DEFbDGHeGcfhABCA	5	3
44.6	3	12	5.875	3.018174	EFbDGHeGcfhABCAD	5	3
44.7	3	12	6.375	3.159806	FbDGHeGcfhABCADE	5	3
44.8	3	12	6.375	3.159806	bDGHeGcfhABCADEF	5	3
44.9	3	12	5.875	3.018174	DGHeGcfhABCADEFb	5	3
44.10	3	9	4.875	1.964529	GHeGcfhABCADEFbD	5	3
44.11	3	13	6.125	3.179524	HeGcfhABCADEFbDG	5	3
44.12	3	13	6.875	3.295357	eGcfhABCADEFbDGH	5	3
44.13	3	13	6.375	3.237958	GcfhABCADEFbDGHe	5	3
44.14	3	10	5.125	2.204399	cfhABCADEFbDGHeG	5	3
44.15	3	10	5.875	2.666341	fhABCADEFbDGHeGc	5	3
44.16	3	10	5.875	2.666341	hABCADEFbDGHeGcf	5	3

45.1	3	11	5.375	2.781074	ABCADEFcGdHegbHF	5	3
45.2	3	13	6.625	3.568526	BCADEFcGdHegbHFA	5	3
45.3	3	13	5.625	3.314268	CADEFcGdHegbHFAB	5	3
45.4	3	13	6.375	3.533324	ADEFcGdHegbHFABC	5	3
45.5	3	10	5.125	2.619041	DEFcGdHegbHFABCA	5	3
45.6	3	10	5.875	3.018174	EFcGdHegbHFABCAD	5	3
45.7	3	10	6.375	3.159806	FcGdHegbHFABCADE	5	3
45.8	3	10	6.125	3.018174	cGdHegbHFABCADEF	5	3
45.9	3	10	5.375	2.689679	GdHegbHFABCADEFc	5	3
45.10	3	11	6.375	3.079671	dHegbHFABCADEFcG	5	3
45.11	3	11	5.625	2.825664	HegbHFABCADEFcGd	5	3
45.12	3	12	6.625	3.425547	egbHFABCADEFcGdH	5	3
45.13	3	12	6.125	3.333073	gbHFABCADEFcGdHe	5	3
45.14	3	12	5.125	2.891258	bHFABCADEFcGdHeg	5	3
45.15	3	12	6.125	3.333073	HFABCADEFcGdHegb	5	3
45.16	3	11	5.125	2.52178	FABCADEFcGdHegbH	5	3
46.1	3	10	5.625	2.05776	ABCDAEFGbEDHfcgh	5	3
46.2	3	12	6.625	2.825664	BCDAEFGbEDHfcghA	5	3
46.3	3	12	6.875	2.847696	CDAEFGbEDHfcghAB	5	3
46.4	3	12	6.125	2.712817	DAEFGbEDHfcghABC	5	3
46.5	3	12	6.375	2.86956	AEFGbEDHfcghABCD	5	3
46.6	3	9	5.375	1.99609	EFGbEDHfcghABCDA	5	3
46.7	3	12	6.375	2.86956	FGbEDHfcghABCDAE	5	3
46.8	3	12	6.875	2.934174	GbEDHfcghABCDAEF	5	3
46.9	3	12	7.125	2.934174	bEDHfcghABCDAEFG	5	3
46.10	3	12	6.875	2.934174	EDHfcghABCDAEFGb	5	3
46.11	3	9	5.875	2.315032	DHfcghABCDAEFGbE	5	3
46.12	3	9	5.625	2.05776	HfcghABCDAEFGbED	5	3
46.13	4	11	6.625	2.446298	fcghABCDAEFGbEDH	5	3
46.14	4	11	6.125	2.315032	cghABCDAEFGbEDHf	5	3
46.15	4	11	6.875	2.471715	ghABCDAEFGbEDHfc	5	3
46.16	4	11	6.625	2.446298	hABCDAEFGbEDHfcg	5	3
47.1	3	11	6.125	2.891258	ABCDAEFGdHeBfhcG	5	3
47.2	3	12	7.125	3.333073	BCDAEFGdHeBfhcGA	5	3
47.3	3	12	6.625	3.159806	CDAEFGdHeBfhcGAB	5	3
47.4	3	12	5.625	2.86956	DAEFGdHeBfhcGABC	5	3
47.5	3	12	6.375	3.119996	AEFGdHeBfhcGABCD	5	3
47.6	3	10	5.375	2.341874	EFGdHeBfhcGABCDA	5	3
47.7	3	10	6.125	2.712817	FGdHeBfhcGABCDAE	5	3
47.8	3	10	6.625	2.825664	GdHeBfhcGABCDAEF	5	3
47.9	3	10	6.625	2.825664	dHeBfhcGABCDAEFG	5	3
47.10	3	10	5.875	2.619041	HeBfhcGABCDAEFGd	5	3
47.11	3	11	6.875	2.847696	eBfhcGABCDAEFGdH	5	3
47.12	3	11	6.125	2.712817	BfhcGABCDAEFGdHe	5	3
47.13	3	11	6.625	2.997395	fhcGABCDAEFGdHeB	5	3
47.14	3	11	6.125	2.891258	hcGABCDAEFGdHeBf	5	3
47.15	3	10	5.125	2.368412	cGABCDAEFGdHeBfh	5	3

47.16	3	11	6.125	2.891258	GABCDAEFGdHeBfhc	5	3
48.1	4	10	5.625	1.932453	ABCDAEFbGDHeGcfh	5	3
48.2	4	12	6.625	2.735759	BCDAEFbGDHeGcfhA	5	3
48.3	4	12	7.125	2.75851	CDAEFbGDHeGcfhAB	5	3
48.4	4	12	6.375	2.689679	DAEFbGDHeGcfhABC	5	3
48.5	4	12	6.875	2.934174	AEFbGDHeGcfhABCD	5	3
48.6	4	10	5.875	2.315032	EFbGDHeGcfhABCDA	5	3
48.7	4	10	6.375	2.496873	FbGDHeGcfhABCDAE	5	3
48.8	4	10	6.375	2.496873	bGDHeGcfhABCDAEF	5	3
48.9	4	10	5.875	2.315032	GDHeGcfhABCDAEFb	5	3
48.10	4	12	6.875	2.934174	DHeGcfhABCDAEFbG	5	3
48.11	4	12	6.375	2.689679	HeGcfhABCDAEFbGD	5	3
48.12	4	12	7.125	2.75851	eGcfhABCDAEFbGDH	5	3
48.13	4	12	6.625	2.735759	GcfhABCDAEFbGDHe	5	3
48.14	4	10	5.625	1.932453	cfhABCDAEFbGDHeG	5	3
48.15	4	10	6.375	2.287876	fhABCDAEFbGDHeGc	5	3
48.16	4	10	6.375	2.287876	hABCDAEFbGDHeGcf	5	3
49.1	3	11	5.875	2.619041	ABCDAEFcGHdfgbEH	5	3
49.2	3	12	6.875	3.179524	BCDAEFcGHdfgbEHA	5	3
49.3	3	12	5.875	2.97647	CDAEFcGHdfgbEHAB	5	3
49.4	3	12	6.625	3.159806	DAEFcGHdfgbEHABC	5	3
49.5	3	12	6.875	3.179524	AEFcGHdfgbEHABCD	5	3
49.6	3	10	5.875	2.619041	EFcGHdfgbEHABCDA	5	3
49.7	3	10	5.625	2.394656	FcGHdfgbEHABCDAE	5	3
49.8	3	10	6.375	2.689679	cGHdfgbEHABCDAEF	5	3
49.9	3	10	5.625	2.394656	GHdfgbEHABCDAEFc	5	3
49.10	3	11	6.625	2.735759	HdfgbEHABCDAEFcG	5	3
49.11	3	11	7.125	2.934174	dfgbEHABCDAEFcGH	5	3
49.12	3	11	6.875	2.934174	fgbEHABCDAEFcGHd	5	3
49.13	3	11	6.125	2.803458	gbEHABCDAEFcGHdf	5	3
49.14	3	10	5.125	2.260393	bEHABCDAEFcGHdfg	5	3
49.15	3	11	6.125	2.803458	EHABCDAEFcGHdfgb	5	3
49.16	3	11	6.375	2.955398	HABCDAEFcGHdfgbE	5	3
50.1	3	11	5.375	2.781074	ABCDAEFcGdfHgbEH	5	3
50.2	3	12	6.375	3.461846	BCDAEFcGdfHgbEHA	5	3
50.3	3	12	5.375	3.119996	CDAEFcGdfHgbEHAB	5	3
50.4	3	12	6.125	3.407253	DAEFcGdfHgbEHABC	5	3
50.5	3	12	6.625	3.497767	AEFcGdfHgbEHABCD	5	3
50.6	3	10	5.625	2.912795	EFcGdfHgbEHABCDA	5	3
50.7	3	10	5.375	2.689679	FcGdfHgbEHABCDAE	5	3
50.8	3	11	6.375	3.079671	cGdfHgbEHABCDAEF	5	3
50.9	3	11	5.625	2.825664	GdfHgbEHABCDAEFc	5	3
50.10	3	11	6.625	3.119996	dfHgbEHABCDAEFcG	5	3
50.11	3	11	6.125	3.018174	fHgbEHABCDAEFcGd	5	3
50.12	3	11	5.125	2.52178	HgbEHABCDAEFcGdf	5	3
50.13	3	12	6.125	3.333073	gbEHABCDAEFcGdfH	5	3
50.14	3	12	5.125	2.891258	bEHABCDAEFcGdfHg	5	3

50.15	3	12	6.125	3.333073	EHABCDAEFcGdfHgb	5	3
50.16	3	12	6.375	3.461846	HABCDAEFcGdfHgbE	5	3
51.1	3	11	6.5	2.872281	ABCDEFGadHfbghce	8	0
51.2	3	11	6.75	2.904738	BCDEFGadHfbghceA	8	0
51.3	3	11	6.25	2.817357	CDEFGadHfbghceAB	8	0
51.4	3	10	5.25	2.331845	DEFGadHfbghceABC	8	0
51.5	3	10	6	2.738613	EFGadHfbghceABCD	8	0
51.6	3	10	5.25	2.331845	FGadHfbghceABCDE	8	0
51.7	3	10	6	2.738613	GadHfbghceABCDEF	8	0
51.8	3	10	6.5	2.872281	adHfbghceABCDEFG	8	0
51.9	3	10	6.25	2.817357	dHfbghceABCDEFGa	8	0
51.10	3	10	5.5	2.5	HfbghceABCDEFGad	8	0
51.11	3	11	6.5	2.872281	fbghceABCDEFGadH	8	0
51.12	3	11	5.75	2.633913	bghceABCDEFGadHf	8	0
51.13	3	11	6.25	2.817357	ghceABCDEFGadHfb	8	0
51.14	3	11	5.75	2.633913	hceABCDEFGadHfbg	8	0
51.15	3	9	4.75	1.85405	ceABCDEFGadHfbgh	8	0
51.16	3	11	5.75	2.633913	eABCDEFGadHfbghc	8	0
52.1	3	11	5.75	3.112475	ABCDEFacGeHfgbhd	8	0
52.2	3	11	6.25	3.269174	BCDEFacGeHfgbhdA	8	0
52.3	3	11	5.25	2.861381	CDEFacGeHfgbhdAB	8	0
52.4	3	11	6	3.201562	DEFacGeHfgbhdABC	8	0
52.5	3	10	5	2.692582	EFacGeHfgbhdABCD	8	0
52.6	3	10	5.75	3.112475	FacGeHfgbhdABCDE	8	0
52.7	3	10	6.25	3.269174	acGeHfgbhdABCDEF	8	0
52.8	3	10	5.75	3.112475	cGeHfgbhdABCDEFa	8	0
52.9	3	10	5	2.692582	GeHfgbhdABCDEFac	8	0
52.10	3	11	6	3.201562	eHfgbhdABCDEFacG	8	0
52.11	3	11	5.25	2.861381	HfgbhdABCDEFacGe	8	0
52.12	3	11	6.25	3.269174	fgbhdABCDEFacGeH	8	0
52.13	3	11	5.75	3.112475	gbhdABCDEFacGeHf	8	0
52.14	3	11	4.75	2.487469	bhdABCDEFacGeHfg	8	0
52.15	3	11	5.75	3.112475	hdABCDEFacGeHfgb	8	0
52.16	3	11	4.75	2.487469	dABCDEFacGeHfgbh	8	0

name	min	max	TCO	stdTCO	segments	num_AP	num_P
1.1	3	13	6.444444	2.985562	ABCDEFCGHEIHdBflg	3	6
1.2	3	15	7.777778	3.735053	BCADEF CGHEIHdBflgA	3	6
1.3	3	15	6.888889	3.314763	CADEF CGHEIHdBflgAB	3	6
1.4	3	15	7.777778	3.735053	ADEF CGHEIHdBflgABC	3	6
1.5	3	13	6.444444	2.985562	DEF CGHEIHdBflgABCA	3	6
1.6	3	13	6.444444	2.985562	EFCGHEIHdBflgABCAD	3	6
1.7	3	13	7.333333	3.559026	FCGHEIHdBflgABCDE	3	6
1.8	3	13	7.333333	3.559026	CGHEIHdBflgABCDEF	3	6
1.9	3	13	6.444444	2.985562	GHEIHdBflgABCDEF C	3	6
1.10	3	13	6.444444	2.985562	HEIHdBflgABCDEF CG	3	6
1.11	3	15	7.777778	3.735053	EIHdBflgABCDEF CGH	3	6
1.12	3	15	6.888889	3.314763	IHdBflgABCDEF CGHE	3	6
1.13	3	15	7.777778	3.735053	HdBflgABCDEF CGHEI	3	6
1.14	3	13	6.444444	2.985562	dBflgABCDEF CGHEIH	3	6
1.15	3	13	6.444444	2.985562	BflgABCDEF CGHEIHd	3	6
1.16	3	13	7.333333	3.559026	flgABCDEF CGHEIHdB	3	6
1.17	3	13	7.333333	3.559026	lgABCDEF CGHEIHdBf	3	6
1.18	3	13	6.444444	2.985562	gABCDEF CGHEIHdBfl	3	6
2.1	3	9	6	2.357023	ABCDEFCGHFbDIHelg	3	6
2.2	3	15	7.333333	3.431877	BCADEF CGHFbDIHelgA	3	6
2.3	3	15	7.111111	3.381139	CADEF CGHFbDIHelgAB	3	6
2.4	3	15	8	3.741657	ADEF CGHFbDIHelgABC	3	6
2.5	3	13	6.666667	3.091206	DEF CGHFbDIHelgABCA	3	6
2.6	3	13	6.888889	3.247031	EFCGHFbDIHelgABCAD	3	6
2.7	3	13	6.666667	3.162278	FCGHFbDIHelgABCDE	3	6
2.8	3	14	7.777778	3.735053	CGHFbDIHelgABCDEF	3	6
2.9	3	14	6.888889	3.314763	GHFbDIHelgABCDEF C	3	6
2.10	3	14	6.888889	3.314763	HFbDIHelgABCDEF CG	3	6
2.11	3	14	7.777778	3.735053	FbDIHelgABCDEF CGH	3	6
2.12	3	13	6.666667	3.162278	bDIHelgABCDEF CGHF	3	6
2.13	3	13	6.888889	3.247031	DIHelgABCDEF CGHFb	3	6
2.14	3	13	6.666667	3.091206	IHelgABCDEF CGHFbD	3	6
2.15	3	15	8	3.741657	HelgABCDEF CGHFbDI	3	6
2.16	3	15	7.111111	3.381139	elgABCDEF CGHFbDIH	3	6
2.17	3	15	7.333333	3.431877	lgABCDEF CGHFbDIHe	3	6
2.18	3	9	6	2.357023	gABCDEF CGHFbDIHel	3	6
3.1	3	10	6	2.538591	ABCDEFCGHdBfIHElg	3	6
3.2	3	15	7.333333	3.559026	BCADEF CGHdBfIHElgA	3	6
3.3	3	15	7.111111	3.446236	CADEF CGHdBfIHElgAB	3	6
3.4	3	15	8	3.800585	ADEF CGHdBfIHElgABC	3	6
3.5	3	13	6.666667	3.162278	DEF CGHdBfIHElgABCA	3	6
3.6	3	13	7.333333	3.366502	EFCGHdBfIHElgABCAD	3	6
3.7	3	13	7.111111	3.247031	FCGHdBfIHElgABCDE	3	6
3.8	3	13	7.777778	3.359159	CGHdBfIHElgABCDEF	3	6
3.9	3	11	6.888889	2.884612	GHdBfIHElgABCDEF C	3	6
3.10	3	11	6.888889	2.884612	HdBfIHElgABCDEF CG	3	6

3.11	3	13	7.777778	3.359159	dBfIHEIlgABCADEF CGH	3	6
3.12	3	13	7.111111	3.247031	BfIHEIlgABCADEF CGHd	3	6
3.13	3	13	7.333333	3.366502	fIHEIlgABCADEF CGHdB	3	6
3.14	3	13	6.666667	3.162278	IHEIlgABCADEF CGHdBf	3	6
3.15	3	15	8	3.800585	HEIlgABCADEF CGHdBfl	3	6
3.16	3	15	7.111111	3.446236	EIlgABCADEF CGHdBfIH	3	6
3.17	3	15	7.333333	3.559026	IlgABCADEF CGHdBfIHE	3	6
3.18	3	10	6	2.538591	gABCADEF CGHdBfIHEI	3	6
4.1	3	12	6.444444	3.13089	ABCADEF CGHeIHFbDIg	3	6
4.2	3	15	7.777778	3.852208	BCADEF CGHeIHFbDIgA	3	6
4.3	3	15	6.888889	3.695175	CADEF CGHeIHFbDIgAB	3	6
4.4	3	15	7.777778	4.07643	ADEF CGHeIHFbDIgABC	3	6
4.5	3	13	6.444444	3.402976	DEF CGHeIHFbDIgABCA	3	6
4.6	3	13	6	3.018462	EFCGHeIHFbDIgABCAD	3	6
4.7	3	13	6.888889	3.446236	FCGHeIHFbDIgABCADE	3	6
4.8	3	13	7.333333	3.681787	CGHeIHFbDIgABCADEF	3	6
4.9	3	12	6.444444	3.13089	GHeIHFbDIgABCADEF C	3	6
4.10	3	12	6.444444	3.13089	HeIHFbDIgABCADEF CG	3	6
4.11	3	15	7.777778	3.852208	eIHFbDIgABCADEF CGH	3	6
4.12	3	15	6.888889	3.695175	IHFbDIgABCADEF CGHe	3	6
4.13	3	15	7.777778	4.07643	HFbDIgABCADEF CGHeI	3	6
4.14	3	13	6.444444	3.402976	FbDIgABCADEF CGHeIH	3	6
4.15	3	13	6	3.018462	bDIgABCADEF CGHeIHF	3	6
4.16	3	13	6.888889	3.446236	DIgABCADEF CGHeIHFb	3	6
4.17	3	13	7.333333	3.681787	IlgABCADEF CGHeIHFbD	3	6
4.18	3	12	6.444444	3.13089	gABCADEF CGHeIHFbDI	3	6
5.1	3	12	6.666667	2.905933	ABCADEF GCHfIdBgIEh	3	6
5.2	4	15	8	3.59011	BCADEF GCHfIdBgIEhA	3	6
5.3	4	15	7.333333	3.333333	CADEF GCHfIdBgIEhAB	3	6
5.4	4	15	8	3.59011	ADEF GCHfIdBgIEhABC	3	6
5.5	3	12	6.666667	2.905933	DEF GCHfIdBgIEhABCA	3	6
5.6	3	12	6.888889	2.997942	EFGCHfIdBgIEhABCAD	3	6
5.7	3	12	6.444444	2.629369	FGCHfIdBgIEhABCADE	3	6
5.8	3	14	7.555556	3.370167	GCHfIdBgIEhABCADEF	3	6
5.9	3	14	8	3.399346	CHfIdBgIEhABCADEF G	3	6
5.10	3	14	7.333333	3.126944	HFfIdBgIEhABCADEF GC	3	6
5.11	3	14	7.555556	3.166179	FfIdBgIEhABCADEF GCH	3	6
5.12	3	10	6.444444	2.362255	IdBgIEhABCADEF GCHF	3	6
5.13	3	14	7.555556	3.166179	dBgIEhABCADEF GCHFI	3	6
5.14	3	14	7.333333	3.126944	BgIEhABCADEF GCHfId	3	6
5.15	3	14	8	3.399346	gIEhABCADEF GCHfIdB	3	6
5.16	3	14	7.555556	3.370167	IEhABCADEF GCHfIdBg	3	6
5.17	3	12	6.444444	2.629369	EhABCADEF GCHfIdBgl	3	6
5.18	3	12	6.888889	2.997942	hABCADEF GCHfIdBgIE	3	6
6.1	3	11	6	2.828427	ABCADEF GbDHGCI FhEi	3	6
6.2	3	15	7.333333	3.771236	BCADEF GbDHGCI FhEiA	3	6
6.3	3	15	7.777778	3.823256	CADEF GbDHGCI FhEiAB	3	6

6.4	3	15	7.555556	3.744955	ADEFGbDHGCIhEiABC	3	6
6.5	3	11	6.222222	2.897423	DEFGbDHGCIhEiABCA	3	6
6.6	3	13	7.111111	3.541639	EFGbDHGCIhEiABCAD	3	6
6.7	3	13	6.666667	3.265986	FGbDHGCIhEiABCADE	3	6
6.8	3	13	6.888889	3.413843	GbDHGCIhEiABCADEF	3	6
6.9	3	14	8	3.887301	bDHGCIhEiABCADEFG	3	6
6.10	3	14	7.555556	3.86181	DHGCIhEiABCADEFGb	3	6
6.11	3	14	6.666667	3.399346	HGCIhEiABCADEFGbD	3	6
6.12	3	14	7.555556	3.624335	GCiEhEiABCADEFGbDH	3	6
6.13	3	12	6.444444	2.948111	CIhEiABCADEFGbDHG	3	6
6.14	3	12	6.666667	3.126944	IFhEiABCADEFGbDHGC	3	6
6.15	3	13	7.777778	3.392075	FhEiABCADEFGbDHGCI	3	6
6.16	3	13	7.555556	3.303571	hEiABCADEFGbDHGCI	3	6
6.17	3	13	6.666667	3.05505	EiABCADEFGbDHGCIh	3	6
6.18	3	13	7.111111	3.348115	iABCADEFGbDHGCIhE	3	6
7.1	3	11	6	2.708013	ABCADEFGdBHGEIcHfI	3	6
7.2	3	15	7.333333	3.681787	BCADEFgdBHGEIcHfIA	3	6
7.3	3	15	7.555556	3.774508	CADEFgdBHGEIcHfIAB	3	6
7.4	3	15	6.888889	3.634539	ADEFgdBHGEIcHfIABC	3	6
7.5	3	10	5.555556	2.408831	DEFgdBHGEIcHfIABCA	3	6
7.6	3	13	6.666667	3.162278	EFGdBHGEIcHfIABCAD	3	6
7.7	3	13	7.111111	3.446236	FGdBHGEIcHfIABCADE	3	6
7.8	3	13	6.888889	3.381139	GdBHGEIcHfIABCADEF	3	6
7.9	3	14	8	3.858612	dBHGEIcHfIABCADEFG	3	6
7.10	3	14	6.888889	3.695175	BHGEIcHfIABCADEFGd	3	6
7.11	3	14	6.666667	3.559026	HGEIcHfIABCADEFGdB	3	6
7.12	3	14	7.555556	4.003085	GEIcHfIABCADEFGdBH	3	6
7.13	3	13	6.444444	3.402976	EIcHfIABCADEFGdBHG	3	6
7.14	3	13	6	3.018462	IcHfIABCADEFGdBHGE	3	6
7.15	3	14	7.111111	3.813556	cHfIABCADEFGdBHGEI	3	6
7.16	3	14	7.777778	3.909469	HfIABCADEFGdBHGEIc	3	6
7.17	3	14	6.888889	3.510126	fIABCADEFGdBHGEIcH	3	6
7.18	3	14	7.111111	3.572874	IABCADEFGdBHGEIcHf	3	6
8.1	3	13	6.888889	3.142697	ABCDAEFGCHfIdHGbEI	3	6
8.2	3	14	8	3.651484	BCDAEFGCHfIdHGbEIA	3	6
8.3	3	14	6.888889	3.478328	CDAEFGCHfIdHGbEIAB	3	6
8.4	3	14	7.555556	3.803832	DAEFGCHfIdHGbEIABC	3	6
8.5	3	14	7.555556	3.803832	AEFGCHfIdHGbEIABCD	3	6
8.6	3	12	6.444444	3.166179	EFGCHfIdHGbEIABCDA	3	6
8.7	3	12	6	2.748737	FGCHfIdHGbEIABCDAE	3	6
8.8	3	13	7.111111	3.281072	GCHfIdHGbEIABCDAEF	3	6
8.9	3	13	7.555556	3.499559	CHfIdHGbEIABCDAEFG	3	6
8.10	3	13	6.888889	3.142697	HfIdHGbEIABCDAEFGC	3	6
8.11	3	14	8	3.651484	fIdHGbEIABCDAEFGCH	3	6
8.12	3	14	6.888889	3.478328	IdHGbEIABCDAEFGCHf	3	6
8.13	3	14	7.555556	3.803832	dHGbEIABCDAEFGCHfI	3	6
8.14	3	14	7.555556	3.803832	HGbEIABCDAEFGCHfId	3	6

8.15	3	12	6.444444	3.166179	GbEIABCDAEFGCHfldH	3	6
8.16	3	12	6	2.748737	bEIABCDAEFGCHfldHG	3	6
8.17	3	13	7.111111	3.281072	EIABCDAEFGCHfldHGb	3	6
8.18	3	13	7.555556	3.499559	IABCDAEFGCHfldHGbE	3	6
9.1	3	13	6.888889	2.960647	ABCDEAFGDHCgleHbFI	3	6
9.2	3	13	7.777778	3.424674	BCDEAFGDHCgleHbFIA	3	6
9.3	3	13	6.666667	3.162278	CDEAFGDHCgleHbFIAB	3	6
9.4	3	13	6.888889	3.314763	DEAFGDHCgleHbFIABC	3	6
9.5	3	13	7.777778	3.735053	EAFGDHCgleHbFIABCD	3	6
9.6	3	13	7.777778	3.735053	AFGDHCgleHbFIABCDE	3	6
9.7	3	13	6.888889	3.314763	FGDHCgleHbFIABCDEA	3	6
9.8	3	13	6.666667	3.162278	GDHCgleHbFIABCDEAF	3	6
9.9	3	13	7.777778	3.424674	DHCgleHbFIABCDEAFG	3	6
9.10	3	13	6.888889	2.960647	HCgleHbFIABCDEAFGD	3	6
9.11	3	13	7.777778	3.424674	CgleHbFIABCDEAFGDH	3	6
9.12	3	13	7.555556	3.337035	gleHbFIABCDEAFGDHC	3	6
9.13	3	13	6.444444	2.985562	leHbFIABCDEAFGDHCg	3	6
9.14	3	13	7.333333	3.559026	eHbFIABCDEAFGDHCgl	3	6
9.15	3	13	7.333333	3.559026	HbFIABCDEAFGDHCgle	3	6
9.16	3	13	6.444444	2.985562	bFIABCDEAFGDHCgleH	3	6
9.17	3	13	7.555556	3.337035	FIABCDEAFGDHCgleHb	3	6
9.18	3	13	7.777778	3.424674	IABCDEAFGDHCgleHbF	3	6
10.1	5	13	6.888889	2.55797	ABCDEAFGDHbFleHCgl	3	6
10.2	5	13	7.777778	3.083208	BCDEAFGDHbFleHCglA	3	6
10.3	5	13	7.777778	3.083208	CDEAFGDHbFleHCglAB	3	6
10.4	5	13	6.888889	2.55797	DEAFGDHbFleHCglABC	3	6
10.5	5	13	7.777778	3.083208	EAFGDHbFleHCglABCD	3	6
10.6	5	13	7.777778	3.083208	AFGDHbFleHCglABCDE	3	6
10.7	5	13	6.888889	2.55797	FGDHbFleHCglABCDEA	3	6
10.8	5	13	7.777778	3.083208	GDHbFleHCglABCDEAF	3	6
10.9	5	13	7.777778	3.083208	DHbFleHCglABCDEAFG	3	6
10.10	5	13	6.888889	2.55797	HbFleHCglABCDEAFGD	3	6
10.11	5	13	7.777778	3.083208	bFleHCglABCDEAFGDH	3	6
10.12	5	13	7.777778	3.083208	FleHCglABCDEAFGDHb	3	6
10.13	5	13	6.888889	2.55797	leHCglABCDEAFGDHbF	3	6
10.14	5	13	7.777778	3.083208	eHCglABCDEAFGDHbFI	3	6
10.15	5	13	7.777778	3.083208	HCglABCDEAFGDHbFle	3	6
10.16	5	13	6.888889	2.55797	CglABCDEAFGDHbFleH	3	6
10.17	5	13	7.777778	3.083208	glABCDEAFGDHbFleHC	3	6
10.18	5	13	7.777778	3.083208	IABCDEAFGDHbFleHCg	3	6
11.1	3	11	6.555556	2.712568	ABCADEFGCHelGbDlfh	4	5
11.2	4	15	7.888889	3.478328	BCADEFGCHelGbDlfhA	4	5
11.3	4	15	7.222222	3.392075	CADEFGCHelGbDlfhAB	4	5
11.4	4	15	7.888889	3.664983	ADEFGCHelGbDlfhABC	4	5
11.5	3	12	6.555556	2.948111	DEFGCHelGbDlfhABCA	4	5
11.6	3	12	6.333333	2.748737	EFGCHelGbDlfhABCAD	4	5
11.7	3	12	7.222222	3.119038	FGCHelGbDlfhABCDE	4	5

11.8	3	12	7	3.05505	GCHeIGbDIfhABCDEF	4	5
11.9	3	13	7.888889	3.478328	CHeIGbDIfhABCDEF	4	5
11.10	3	13	7.222222	3.189489	HeIGbDIfhABCDEF	4	5
11.11	3	13	7.444444	3.235604	eIGbDIfhABCDEF	4	5
11.12	3	13	6.555556	2.948111	IGbDIfhABCDEF	4	5
11.13	3	14	7.666667	3.59011	GbDIfhABCDEF	4	5
11.14	3	14	6.777778	3.119038	bDIfhABCDEF	4	5
11.15	3	14	7.444444	3.303571	DIfhABCDEF	4	5
11.16	3	14	7.666667	3.399346	lIfhABCDEF	4	5
11.17	3	11	6.555556	2.712568	fhABCDEF	4	5
11.18	3	11	6.777778	2.819684	hABCDEF	4	5
12.1	3	12	6.555556	3.166179	ABCDEFGEHCIfHbDgi	4	5
12.2	3	15	7.888889	3.842581	BCADEFGEHCIfHbDgiA	4	5
12.3	3	15	7	3.711843	CADEFGEHCIfHbDgiAB	4	5
12.4	3	15	7.222222	3.823256	ADEFGEHCIfHbDgiABC	4	5
12.5	3	11	5.888889	2.845833	DEFGEHCIfHbDgiABCA	4	5
12.6	3	10	5.444444	2.266231	EFGHCIfHbDgiABCAD	4	5
12.7	3	15	6.777778	3.583226	FGEHCIfHbDgiABCDE	4	5
12.8	3	15	7.444444	3.744955	GEHCIfHbDgiABCDEF	4	5
12.9	3	15	7.444444	3.744955	EHCIfHbDgiABCDEF	4	5
12.10	3	11	6.111111	2.845833	HClfHbDgiABCDEF	4	5
12.11	3	14	7.222222	3.644715	ClfHbDgiABCDEF	4	5
12.12	3	14	7	3.527668	lIfHbDgiABCDEF	4	5
12.13	3	14	7.666667	3.651484	fHbDgiABCDEF	4	5
12.14	3	14	7	3.527668	HbDgiABCDEF	4	5
12.15	3	11	5.888889	2.601044	bDgiABCDEF	4	5
12.16	3	12	6.777778	3.119038	DgiABCDEF	4	5
12.17	3	12	7.222222	3.392075	giABCDEF	4	5
12.18	3	12	7.222222	3.392075	iABCDEF	4	5
13.1	3	10	5.888889	2.424158	ABCDEFGBDHGCleHfi	4	5
13.2	3	15	7.222222	3.520662	BCADEFGBDHGCleHfiA	4	5
13.3	3	15	7.666667	3.59011	CADEFGBDHGCleHfiAB	4	5
13.4	3	15	7.444444	3.499559	ADEFGBDHGCleHfiABC	4	5
13.5	3	10	6.111111	2.514157	DEFGBDHGCleHfiABCA	4	5
13.6	3	13	7	3.265986	EFGbDHGCleHfiABCAD	4	5
13.7	3	13	7	3.265986	FGbDHGCleHfiABCDE	4	5
13.8	3	13	6.777778	3.189489	GbDHGCleHfiABCDEF	4	5
13.9	3	14	7.888889	3.725123	bDHGCleHfiABCDEF	4	5
13.10	3	14	7.444444	3.685139	DHGCleHfiABCDEF	4	5
13.11	3	14	6.555556	3.166179	HGCleHfiABCDEF	4	5
13.12	3	14	7.444444	3.685139	GClfHfiABCDEF	4	5
13.13	3	13	6.333333	2.981424	ClfHfiABCDEF	4	5
13.14	3	13	6.555556	3.166179	lHfiABCDEF	4	5
13.15	3	13	7.666667	3.464102	eHfiABCDEF	4	5
13.16	3	13	7.666667	3.464102	HfiABCDEF	4	5
13.17	3	13	6.777778	2.973131	fiABCDEF	4	5
13.18	3	13	7	3.05505	iABCDEF	4	5

14.1	3	12	6.555556	3.370167	ABCDEFgChFIEhbDiG	4	5
14.2	3	15	7.888889	4.012327	BCDEFgChFIEhbDiGA	4	5
14.3	3	15	7	3.887301	CADEFgChFIEhbDiGAB	4	5
14.4	3	15	7.666667	4	ADEFgChFIEhbDiGABC	4	5
14.5	3	11	6.333333	3.265986	DEFGChFIEhbDiGABCA	4	5
14.6	3	11	5.888889	2.845833	EFGChFIEhbDiGABCAD	4	5
14.7	3	11	6.333333	3.265986	FGChFIEhbDiGABCADE	4	5
14.8	3	14	7.444444	3.918932	GChFIEhbDiGABCADEF	4	5
14.9	3	14	7.222222	3.823256	ChFIEhbDiGABCADEFG	4	5
14.10	3	14	6.555556	3.624335	HFIEhbDiGABCADEFGc	4	5
14.11	3	14	7.666667	3.887301	FIHbDiGABCADEFGcH	4	5
14.12	3	13	6.555556	3.303571	IEhbDiGABCADEFGcHF	4	5
14.13	3	13	7.444444	3.562493	EhbDiGABCADEFGcHFI	4	5
14.14	3	13	7	3.333333	hbDiGABCADEFGcHFIE	4	5
14.15	3	12	5.888889	2.766644	bDiGABCADEFGcHFIEh	4	5
14.16	3	12	6.777778	3.258417	DiGABCADEFGcHFIEhb	4	5
14.17	3	12	7.222222	3.520662	iGABCADEFGcHFIEhbD	4	5
14.18	3	12	6.333333	3.197221	GABCADEFGcHFIEhbDi	4	5
15.1	3	11	5.888889	2.845833	ABCDEFgdBHeglcHFI	4	5
15.2	3	15	7.222222	3.823256	BCDEFgdBHeglcHFIA	4	5
15.3	3	15	7.444444	3.918932	CADEFgdBHeglcHFIA	4	5
15.4	3	15	6.777778	3.764683	ADEFgdBHeglcHFIABC	4	5
15.5	3	10	5.444444	2.54345	DEFGdBHeglcHFIABCA	4	5
15.6	3	13	6.555556	3.303571	EFGdBHeglcHFIABCAD	4	5
15.7	3	13	7.222222	3.520662	FGdBHeglcHFIABCADE	4	5
15.8	3	13	7	3.399346	GdBHeglcHFIABCADEF	4	5
15.9	3	13	7.888889	3.541639	dBHeglcHFIABCADEFG	4	5
15.10	3	12	6.777778	3.325918	BHeglcHFIABCADEFGd	4	5
15.11	3	12	6.555556	3.166179	HeglcHFIABCADEFGdB	4	5
15.12	3	13	7.444444	3.685139	eglcHFIABCADEFGdBH	4	5
15.13	3	13	6.777778	3.520662	glcHFIABCADEFGdBHe	4	5
15.14	3	13	5.888889	3.071172	lcHFIABCADEFGdBHeg	4	5
15.15	3	14	7	3.887301	ChFIABCADEFGdBHegl	4	5
15.16	3	14	7.666667	4	HFIABCADEFGdBHeglc	4	5
15.17	3	14	6.777778	3.583226	FIABCADEFGdBHeglcH	4	5
15.18	3	14	7	3.711843	IABCADEFGdBHeglcHF	4	5
16.1	3	12	7	2.828427	ABCDEAFGCHeIGbFidH	4	5
16.2	3	13	7.888889	3.281072	BCDEAFGCHeIGbFidHA	4	5
16.3	3	13	7.222222	3.189489	CDEAFGCHeIGbFidHAB	4	5
16.4	3	13	7.888889	3.478328	DEAFGCHeIGbFidHABC	4	5
16.5	3	13	7	3.333333	EAFGCHeIGbFidHABCD	4	5
16.6	3	13	7.666667	3.464102	AFGCHeIGbFidHABCDE	4	5
16.7	3	12	6.777778	2.973131	FGCHeIGbFidHABCDEA	4	5
16.8	3	12	7	3.126944	GCHeIGbFidHABCDEAF	4	5
16.9	3	13	7.888889	3.541639	CHeIGbFidHABCDEAFG	4	5
16.10	3	13	7.222222	3.258417	HeIGbFidHABCDEAFGC	4	5
16.11	3	13	7.444444	3.370167	eIGbFidHABCDEAFGCH	4	5

16.12	3	13	6.777778	3.189489	IGbFidHABCDEAFGCHe	4	5
16.13	4	13	7.888889	3.413843	GbFidHABCDEAFGCHel	4	5
16.14	4	13	7	2.981424	bFidHABCDEAFGCHelG	4	5
16.15	4	13	7.666667	3.126944	FidHABCDEAFGCHelGb	4	5
16.16	4	13	7.444444	3.022549	idHABCDEAFGCHelGbF	4	5
16.17	3	11	6.333333	2.581989	dHABCDEAFGCHelGbFi	4	5
16.18	3	12	7.222222	2.973131	HABCDEAFGCHelGbFid	4	5
17.1	3	11	6	2.581989	ABCADEFGbDHflcghEI	5	4
17.2	4	15	7.333333	3.59011	BCADEFGbDHflcghEIA	5	4
17.3	4	15	7.777778	3.644715	CADEFGbDHflcghEIAB	5	4
17.4	4	15	7.333333	3.59011	ADEFGbDHflcghEIABC	5	4
17.5	3	11	6	2.581989	DEFGbDHflcghEIABCA	5	4
17.6	3	13	6.888889	3.348115	EFGbDHflcghEIABCAD	5	4
17.7	3	13	6.444444	3.022549	FGbDHflcghEIABCADE	5	4
17.8	3	13	7.333333	3.333333	GbDHflcghEIABCADEF	5	4
17.9	3	13	7.777778	3.392075	bDHflcghEIABCADEFG	5	4
17.10	3	13	7.333333	3.333333	DHflcghEIABCADEFGb	5	4
17.11	3	12	6.444444	2.712568	HflcghEIABCADEFGbD	5	4
17.12	3	12	7.333333	3.05505	flcghEIABCADEFGbDH	5	4
17.13	3	12	6.444444	2.712568	lcghEIABCADEFGbDHf	5	4
17.14	3	13	7.333333	3.333333	cghEIABCADEFGbDHfl	5	4
17.15	3	13	7.777778	3.392075	ghEIABCADEFGbDHflc	5	4
17.16	3	13	7.333333	3.333333	hEIABCADEFGbDHflcg	5	4
17.17	3	13	6.444444	3.022549	EIABCADEFGbDHflcgh	5	4
17.18	3	13	6.888889	3.348115	IABCADEFGbDHflcghE	5	4
18.1	3	12	6.444444	3.337035	ABCADEFGcHelfhbDIG	5	4
18.2	3	15	7.777778	4.021547	BCADEFGcHelfhbDIGA	5	4
18.3	3	15	6.888889	3.871389	CADEFGcHelfhbDIGAB	5	4
18.4	3	15	7.555556	4.003085	ADEFGcHelfhbDIGABC	5	4
18.5	3	11	6.222222	3.224137	DEFGcHelfhbDIGABCA	5	4
18.6	3	11	5.777778	2.779999	EFGcHelfhbDIGABCAD	5	4
18.7	3	12	6.666667	3.299832	FGcHelfhbDIGABCADE	5	4
18.8	3	12	7.333333	3.496029	GcHelfhbDIGABCADEF	5	4
18.9	3	12	7.111111	3.381139	cHelfhbDIGABCADEFG	5	4
18.10	3	12	6.444444	3.13089	HelfhbDIGABCADEFGc	5	4
18.11	3	13	7.555556	3.467664	elfhbDIGABCADEFGcH	5	4
18.12	3	13	6.666667	3.231787	lfhbDIGABCADEFGcHe	5	4
18.13	3	13	7.555556	3.715167	fhbDIGABCADEFGcHel	5	4
18.14	3	13	6.888889	3.572874	hbDIGABCADEFGcHelf	5	4
18.15	3	13	5.777778	3.01027	bDIGABCADEFGcHelfh	5	4
18.16	3	13	6.666667	3.496029	DIGABCADEFGcHelfhb	5	4
18.17	3	13	7.111111	3.754832	IGABCADEFGcHelfhbD	5	4
18.18	3	12	6.222222	3.15446	GABCADEFGcHelfhbDI	5	4
19.1	3	11	5.333333	2.44949	ABCADEFbDGHeGlcfl	5	4
19.2	3	15	6.666667	3.741657	BCADEFbDGHeGlcflIA	5	4
19.3	3	15	7.333333	3.91578	CADEFbDGHeGlcflIAB	5	4
19.4	3	15	6.666667	3.741657	ADEFbDGHeGlcflIABC	5	4

19.5	3	11	5.333333	2.44949	DEFbDGHeGlcfhIABCA	5	4
19.6	3	14	6.444444	3.593547	EFbDGHeGlcfhIABCAD	5	4
19.7	3	14	7.111111	3.813556	FbDGHeGlcfhIABCADE	5	4
19.8	3	14	7.111111	3.813556	bDGHeGlcfhIABCADEF	5	4
19.9	3	14	6.444444	3.593547	DGHeGlcfhIABCADEFb	5	4
19.10	3	11	5.333333	2.44949	GHeGlcfhIABCADEFbD	5	4
19.11	3	15	6.666667	3.741657	HeGlcfhIABCADEFbDG	5	4
19.12	3	15	7.333333	3.91578	eGlcfhIABCADEFbDGH	5	4
19.13	3	15	6.666667	3.741657	GlcfhIABCADEFbDGHe	5	4
19.14	3	11	5.333333	2.44949	lcfhIABCADEFbDGHeG	5	4
19.15	3	14	6.444444	3.593547	cfhIABCADEFbDGHeGI	5	4
19.16	3	14	7.111111	3.813556	fhIABCADEFbDGHeGlc	5	4
19.17	3	14	7.111111	3.813556	hIABCADEFbDGHeGlc	5	4
19.18	3	14	6.444444	3.593547	IABCADEFbDGHeGlc	5	4
20.1	3	12	6.888889	2.997942	ABCDEAFGCHelfBgidH	5	4
20.2	3	13	7.777778	3.456966	BCDEAFGCHelfBgidHA	5	4
20.3	3	13	7.111111	3.142697	CDEAFGCHelfBgidHAB	5	4
20.4	3	13	7.777778	3.456966	DEAFGCHelfBgidHABC	5	4
20.5	3	13	6.888889	3.281072	EAFGCHelfBgidHABCD	5	4
20.6	3	13	7.555556	3.435472	AFGCHelfBgidHABCDE	5	4
20.7	3	12	6.666667	2.905933	FGCHelfBgidHABCDEA	5	4
20.8	3	12	7.333333	3.126944	GCHelfBgidHABCDEAF	5	4
20.9	3	12	7.777778	3.189489	CHelfBgidHABCDEAFG	5	4
20.10	3	11	7.111111	2.845833	HelfBgidHABCDEAFGC	5	4
20.11	3	11	7.333333	2.981424	elfBgidHABCDEAFGCH	5	4
20.12	3	11	6.666667	2.748737	lfBgidHABCDEAFGCHe	5	4
20.13	4	13	7.777778	3.046958	fBgidHABCDEAFGCHel	5	4
20.14	4	13	7.111111	2.922877	BgidHABCDEAFGCHelf	5	4
20.15	4	13	7.777778	3.258417	gidHABCDEAFGCHelfB	5	4
20.16	4	13	7.333333	3.197221	idHABCDEAFGCHelfBg	5	4
20.17	3	12	6.222222	2.73974	dHABCDEAFGCHelfBgi	5	4
20.18	3	12	7.111111	3.142697	HABCDEAFGCHelfBgid	5	4
21.1	5	12	6.888889	2.643417	ABCDEAFGcHElfBHdgi	5	4
21.2	5	13	7.777778	3.15446	BCDEAFGcHElfBHdgiA	5	4
21.3	5	13	7.111111	2.806518	CDEAFGcHElfBHdgiAB	5	4
21.4	5	13	7.777778	2.935521	DEAFGcHElfBHdgiABC	5	4
21.5	5	13	7.111111	2.806518	EAFGcHElfBHdgiABCD	5	4
21.6	5	13	7.777778	3.15446	AFGcHElfBHdgiABCDE	5	4
21.7	5	12	6.888889	2.643417	FGcHElfBHdgiABCDEA	5	4
21.8	5	12	7.555556	2.832789	GcHElfBHdgiABCDEAF	5	4
21.9	5	12	7.555556	2.832789	cHElfBHdgiABCDEAFG	5	4
21.10	5	12	6.888889	2.643417	HElfBHdgiABCDEAFGc	5	4
21.11	5	13	7.777778	3.15446	ElfBHdgiABCDEAFGcH	5	4
21.12	5	13	7.111111	2.806518	lfBHdgiABCDEAFGcHE	5	4
21.13	5	13	7.777778	2.935521	fBHdgiABCDEAFGcHEI	5	4
21.14	5	13	7.111111	2.806518	BHdgiABCDEAFGcHEIf	5	4
21.15	5	13	7.777778	3.15446	HdgiABCDEAFGcHEIfB	5	4

21.16	5	12	6.888889	2.643417	dgiABCDEAFGcHEIfBH	5	4
21.17	5	12	7.555556	2.832789	giABCDEAFGcHEIfBHd	5	4
21.18	5	12	7.555556	2.832789	iABCDEAFGcHEIfBHdg	5	4
22.1	3	13	6.555556	3.235604	ABCDAEFGcHfIdghbEI	6	3
22.2	3	14	7.666667	3.829708	BCDAEFGcHfIdghbEIA	6	3
22.3	3	14	6.555556	3.562493	CDAEFGcHfIdghbEIAB	6	3
22.4	3	14	7.222222	3.764683	DAEFGcHfIdghbEIABC	6	3
22.5	3	14	7.222222	3.764683	AEFGcHfIdghbEIABCD	6	3
22.6	3	11	6.111111	2.997942	EFGcHfIdghbEIABCD	6	3
22.7	3	11	5.666667	2.494438	FGcHfIdghbEIABCD	6	3
22.8	3	13	6.777778	3.189489	GcHfIdghbEIABCD	6	3
22.9	3	13	7.444444	3.370167	cHfIdghbEIABCD	6	3
22.10	3	13	6.777778	3.189489	HfIdghbEIABCD	6	3
22.11	3	13	7.666667	3.399346	fIdghbEIABCD	6	3
22.12	3	12	6.555556	3.095197	IdghbEIABCD	6	3
22.13	3	12	7.222222	3.520662	dghbEIABCD	6	3
22.14	3	12	7.222222	3.520662	ghbEIABCD	6	3
22.15	3	12	6.555556	3.303571	hbEIABCD	6	3
22.16	3	12	5.666667	2.748737	bEIABCD	6	3
22.17	3	13	6.777778	3.392075	EIABCD	6	3
22.18	3	13	7.222222	3.644715	IABCD	6	3
23.1	3	13	6.555556	3.022549	ABCDEAFGcHdglehbFI	6	3
23.2	3	13	7.444444	3.562493	BCDEAFGcHdglehbFIA	6	3
23.3	3	13	6.333333	3.197221	CDEAFGcHdglehbFIAB	6	3
23.4	3	13	7	3.464102	DEAFGcHdglehbFIABC	6	3
23.5	3	13	7.444444	3.562493	EAFGcHdglehbFIABCD	6	3
23.6	3	13	7.444444	3.562493	AFGcHdglehbFIABCDE	6	3
23.7	3	11	6.555556	3.022549	FGcHdglehbFIABCDE	6	3
23.8	3	11	6.333333	2.828427	GcHdglehbFIABCDE	6	3
23.9	3	13	7.444444	3.235604	cHdglehbFIABCDE	6	3
23.10	3	13	6.777778	3.046958	HdglehbFIABCDE	6	3
23.11	3	13	7.666667	3.265986	dglehbFIABCDE	6	3
23.12	3	13	7.222222	3.189489	glehbFIABCDE	6	3
23.13	3	12	6.111111	2.685121	lehbFIABCDE	6	3
23.14	3	13	7	3.399346	ehbFIABCDE	6	3
23.15	3	13	7	3.399346	hbFIABCDE	6	3
23.16	3	13	6.111111	2.997942	bFIABCDE	6	3
23.17	3	13	7.222222	3.456966	FIABCDE	6	3
23.18	3	13	7.444444	3.562493	IABCDE	6	3
24.1	3	13	6.888889	3.281072	ABCDEFGacHelfhbgid	9	0
24.2	3	13	7.333333	3.399346	BCDEFGacHelfhbgidA	9	0
24.3	3	13	6.444444	3.095197	CDEFGacHelfhbgidAB	9	0
24.4	3	13	7.111111	3.348115	DEFGacHelfhbgidABC	9	0
24.5	3	11	6	2.828427	EFGacHelfhbgidABCD	9	0
24.6	3	11	6.666667	3.197221	FGacHelfhbgidABCDE	9	0
24.7	3	11	7.111111	3.348115	GacHelfhbgidABCDEF	9	0
24.8	3	11	7.111111	3.348115	acHelfhbgidABCDEF	9	0

24.9	3	11	6.666667	3.197221	cHelfhbgidABCDEFGa	9	0
24.10	3	11	6	2.828427	HelfhbgidABCDEFGac	9	0
24.11	3	13	7.111111	3.348115	elfhbgidABCDEFGacH	9	0
24.12	3	13	6.444444	3.095197	lfhbgidABCDEFGacHe	9	0
24.13	3	13	7.333333	3.399346	fhbgidABCDEFGacHel	9	0
24.14	3	13	6.888889	3.281072	hbgidABCDEFGacHelf	9	0
24.15	3	12	5.777778	2.657391	bgidABCDEFGacHelfh	9	0
24.16	3	12	6.666667	3.197221	gidABCDEFGacHelfhb	9	0
24.17	3	12	6.666667	3.197221	idABCDEFGacHelfhbg	9	0
24.18	3	12	5.777778	2.657391	dABCDEFGacHelfhbgj	9	0
25.1	3	13	7.333333	3.559026	ABCDEFGbHelfhacgid	9	0
25.2	3	13	6.444444	3.269764	BCDEFGBHelfhacgidA	9	0
25.3	3	13	7.111111	3.510126	CDEFGBHelfhacgidAB	9	0
25.4	3	13	6.444444	3.269764	DEFGBHelfhacgidABC	9	0
25.5	3	11	5.333333	2.44949	EFGbHelfhacgidABCD	9	0
25.6	3	12	6.222222	3.15446	FGbHelfhacgidABCDE	9	0
25.7	3	12	6.888889	3.446236	GbHelfhacgidABCDEF	9	0
25.8	3	12	6.888889	3.446236	bHelfhacgidABCDEFG	9	0
25.9	3	12	6.222222	3.15446	HelfhacgidABCDEFGb	9	0
25.10	3	13	7.333333	3.559026	elfhacgidABCDEFGbH	9	0
25.11	3	13	6.444444	3.269764	lfhacgidABCDEFGbHe	9	0
25.12	3	13	7.111111	3.510126	fhacgidABCDEFGbHel	9	0
25.13	3	13	6.444444	3.269764	hacgidABCDEFGbHelf	9	0
25.14	3	11	5.333333	2.44949	acgidABCDEFGbHelfh	9	0
25.15	3	12	6.222222	3.15446	cgidABCDEFGbHelfha	9	0
25.16	3	12	6.888889	3.446236	gidABCDEFGbHelfhac	9	0
25.17	3	12	6.888889	3.446236	idABCDEFGbHelfhacg	9	0
25.18	3	12	6.222222	3.15446	dABCDEFGbHelfhacgi	9	0

