Contradiction Matrix / Altshuller Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
─	t	bject	+	ject		ţ	t						5		object	_			_	+								ent	5	ь	the		61						
Worsening Feature (harmful parameter)	e object	nary o	object	ary of	bject	y object	e obje	nary			e.		ositio		ile ob	tionar			tion o	t tion o			92	5		auce		surem	precision	acting	effects of	≥	nienc			vice	ntrol	io	
	nobile	tation	nobile	tation	bile o	tiona	mobil	statio			ressur		comp		of mok	of stat	2	_	sump	sump		nergy	nbstar	rmati	ae	subst		fmea	ring p	ctors	de effe	rabili	conve	25		of de	o Jo	tomat	₽
Improving Feature (useful parameter)	ıt of r	ıt of s	hofn	h of sl	of mo	of sta	ne of	ne of: t	ity		ıd /uc	41	ity of	£ £	oiltyo	t t	eratn	ation	y con le obje	y con		e of e	e of su	finfo	e of ti	it of	iit T	acy o	factu	t fig	t Eisi	factu	tion	rabilit	abilt	lexity	lexity	ofaul	ıctivit
↓ ,	weig	weigl	lengt	lengt	ar ea	ar ea	volur	volur objec	veloc	force	tensi	shapı	stabi	stren	dural	dural	temp	E air	en ergy mobile	en erg static	awod	wast	wast	loss c	wast	ашог	reliat	accur	manı	har m objec	har m objec	man	opera	repai	adap	8	ш 8	level	prod
1 weight of mobile object	+	-	15, 8, 29,34	-	29, 17, 38, 34	-	29, 2, 40, 28	-	2, 8, 15, 38	8, 10, 18, 37	10, 36, 37, 40	10, 14, 35, 40	1, 35, 19, 39	28, 27, 18, 40	5, 34, 31, 35	-	6, 29, 4 38	, 19, 1, 32	35, 12, 34, 31	-	12, 36, 18, 31	6, 2, 34, 19	5, 35, 3, 31	10, 24, 35	10, 35, 20, 28	3, 26, 18, 31	1, 3, 11, 27	28, 27, 35, 26	28, 35, 26, 18	22, 21, 18, 27	22, 35, 31, 39	27, 28, 1, 36	35, 3, 2, 24	, 2, 27, 28, 11	29, 5, 15, 8	26, 30, 36, 34	28, 29, 26, 32		35, 3, 24, 37
2 weight of stationary object	-	+	-	10, 1, 29.35	-	35, 30, 13, 2	-	5, 35, 14, 2	-	8, 10, 19, 35		13, 10, 29, 14		28, 2,	-	2, 27, 19. 6	28, 19, 32, 22	19, 32,	-	18, 19, 28, 1	15, 19, 18, 15	18, 19, 28, 15	5, 8, 13,		10, 20, 35, 26		10, 28, 8, 3	18, 26,		2, 19,	35, 22,		6 12 1	, 2, 27, 28, 11	19, 15, 29		25, 28, 17, 15	2, 26, 35	1, 28, 15, 35
3 length of mobile object	8, 15, 29, 34		+	-	15, 17,	-	7, 17, 4, 35	-	13, 4, 8	17, 10, 4	1, 8, 35	1, 8, 10, 29	1, 8, 15,	8, 35, 29, 34	19	-	10, 15, 19	32	8, 35, 24	-	1, 35	7, 2, 35, 39	4, 29, 23, 10	1, 24	15, 2, 29	29, 35	10, 14, 29, 40	28, 32,	10, 28, 29, 37	1, 15,	17, 15	1, 29, 17	15, 29, 35, 4	1, 28, 10	14, 15, 1, 16	1, 19, 26, 24	35, 1, 26, 24		14, 4, 28, 29
4 length of stationary object	23, 34	35, 28, 40, 29	-	+		17, 7, 10, 40	-	35, 8, 2,14		28, 10	1, 14, 35	13, 14, 15. 7	39, 37, 35			1, 10, 35	3, 35, 38, 18	3, 25			12, 8		10, 28, 24, 35	24, 26,	30, 29, 14			32, 28,	2, 32,	1, 18		15, 17, 27	2, 25	3	1, 35	1, 26	26	20, 10	30, 14, 7, 26
5 area of mobile object	2, 17, 29, 4	- 40, 23	14, 15, 18, 4	-	+	-	7, 14, 17, 4	2,14	29, 30, 4, 34	19, 30, 35, 2	10, 15, 36, 28	5, 34, 29, 4	11, 2, 13, 39	3, 15,	6, 3	-	2, 15,	15, 32, 19, 13	19, 32		19, 10, 32, 18	15, 17, 30, 26	10, 35,	30, 26	26, 4	29, 30, 6, 13	29, 9	26, 28,	2, 32	22, 33, 28, 1		13, 1,		15, 13, 10, 1	15, 30	14, 1, 13	2, 36, 26, 18	14, 30, 28, 23	10, 26,
6 area of stationary object	- 29, 4	30, 2,	18, 4	26, 7, 9	, _	+	- 17,4		4,34	1, 18,	10, 15,	29, 4	2, 38	40, 14	-		35, 39,	19, 13	-		17, 32	17, 7,	10, 14,	30, 16	10, 35,	2, 18,	32, 35,	26, 28,	2, 29,	27, 2,	22, 1,	40, 16	16, 4	16	15, 16	1, 18,	2, 35,	23	10, 15,
7 volume of mobile object	2, 26,	14, 18	1, 7, 4,	. 39	1, 7, 4,		+			35, 36 15, 35,	6, 35,	1, 15,	28, 10,		6, 35, 4	19, 30	38 34, 39,		35		35, 6,		18, 39 36, 39,	2, 22	4, 18 2, 6, 34,	40, 4 29, 30,			18, 36 25, 28,	39, 35 22, 21,	17, 2,	29, 1,	15, 13,	10	15, 29	36 26, 1	30, 18 29, 26,		10, 6, 2,
8 volume of stationary object	29, 40	35, 10,	35 19, 14	35, 8, 2,	, 17			+	38, 34	36, 37 2, 18, 37	36, 37 24, 35	29, 4 7, 2, 35	1, 39 34, 28,			35, 34,	10, 18 35, 6, 4	10			13, 18 30, 6	13, 16	34, 10 10, 39,	,	10 35, 16,	7 35, 3	40, 11	28	2, 16 35, 10,		30, 18,	40 35	30, 12	1	-,	1, 31	4 2, 17,	16, 24	34 35, 37,
9 velocity	2, 28,	19, 14	13, 14,	14	29, 30,		7, 29,	·		13, 28,	6, 18,	35, 15,		17, 15 8, 3, 26,	3, 19,	38	, . ,	10, 13,	8, 15,		19, 35,	14, 20,		13, 26	32 18	10, 19,	16 11, 35,		25 10, 28,	19, 27 1, 28,	2, 24,	35, 13,		34, 2,		10, 28,	26 3, 34,	10. 18	10, 2
	13, 38 8, 1, 37,	18, 13,	8 17, 19,	-	34 19, 10,	1, 18,	34 15, 9,	2, 36,	13, 28,	15, 19	38, 40 18, 21,	18, 34 10, 35,	1, 18 35, 10,	14 35, 10,	35, 5	-	36, 2 35, 10,	19	35, 38 19, 17,	1, 16,	38, 2 19, 35,	- /	28, 38 8, 35,	15, 20	10, 37,	29, 38 14, 29,	27, 28 3, 35,	1, 24 35, 10,	32, 25 28, 29,	35, 23 1, 35,		8, 1 15, 37,	13, 12	28, 27	26 15, 17,	4, 34 26, 35,	27, 16 36, 37,	- ' -	3, 28,
10 force	18	1, 28 13, 29,	9, 36	28, 10 35, 1,	15	36, 37	12, 37	18, 37	15, 12 6, 35,	+ 36, 35,	11	40, 34	21	14, 27 9, 18, 3,	19, 2		21 35, 39,	-	10 14, 24,	36, 37	18, 37 10, 35,	14, 15 2, 36,	40, 5		36 37, 36,	18, 36	13, 21 10, 13,	23, 24	37, 36	40, 18		18, 1	25	11	18, 20	10, 18 19, 1,	10, 19 2, 36,	2, 35	35, 37 10, 14,
11 tension/ pressure	37, 40	10, 18	36	14, 16		36, 37	10 14, 4,	35, 24	36 35, 15,	21 35, 10.	+ 34, 15,	15, 10	2, 40	40 30, 14,	27 14, 26,		19, 2	13, 15,	10, 37		14	25	3, 37 35, 29,		4	36	19, 35 10, 40,	25	3, 35	37	27, 18	16 1, 32,	11 32, 15,	2	35 1, 15,	35 16, 29,	37 15, 13,	35, 24 15. 1.	35, 37 17, 26.
12 shape	29, 40	26, 3	5, 4 13, 15,	10, 7	10	1	15, 22	7, 2, 35	34, 18 33, 15,	37, 40	10, 14	+ 22, 1,	18, 4	10, 40	9, 25	39, 3,	19, 32	32	14	27, 4,	4, 6, 2 32, 35,	14	3, 5		34, 17	36, 22 15, 32,	16	1	40	35 35, 24,	33, 1	17, 28	26	2, 15, 1	29	1, 28	39 35, 22,	32	34, 10 23, 35,
13 stability of composition	2, 39	1,40	1, 28	37	13	39	19, 39	35, 40	28, 18		40	18, 4	+	17, 9, 15	10, 35	35, 23	35, 1, 32	27, 16	13, 19	29, 18	27, 31	39, 6	30, 40		35, 27	35		13	18	30, 18	27, 39		50	10, 16	34, 2	22, 26	39, 23	1, 8, 35	40, 3
14 strength	1, 8, 40, 15	40, 26, 27, 1	1, 15, 8, 35	15, 14, 28, 26	40, 29	9, 40, 28	10, 15, 14, 7	9, 14, 17, 15	8, 13, 26, 14		10, 3, 18, 40	35, 40	13, 17, 35	+	27, 3, 26		30, 10, 40	35, 19	19, 35, 10	35	10, 26, 35, 28	35	35, 28, 31, 40		28, 10	29, 10, 27	11, 3	3, 27, 16	3, 27	18, 35, 37, 1	22, 2	11, 3,	32, 40, 25, 2	3	15, 3, 32	2, 13, 25, 28	27, 3, 15, 40	15	29, 35, 10, 14
15 durabilty of mobile object	19, 5, 34, 31		2, 19, 9	-	3, 17, 19	-	10, 2, 19, 30	-	3, 35, 5	19, 2, 16	19, 3, 27	14, 26, 28, 25	13, 3, 35	27, 3, 10	+	-	39	2, 19, 4, 35	28, 6, 35, 18		19, 10, 35, 38		28, 27, 3, 18	10	20, 10, 28, 18	3, 35, 10, 40	11, 2, 13	3	3, 27, 16, 40	33, 28	21, 39, 16, 22	27, 1, 4	12, 27	29, 10, 27	1, 35, 13	10, 4, 29, 15	19, 29, 39, 35	6, 10	35, 17, 14, 19
16 durability of stationary object	-	6, 27, 19, 16	-	1, 40, 35	5 -		-	35, 34, 38	-				39, 3, 35, 23		-	+	19, 18, 36, 40		-		16		27, 16, 18, 38	10	28, 20, 10, 16	3, 35, 31	34, 27, 6, 40	10, 26, 24		17, 1, 40, 33	22	35, 10	1	1	2		25, 34, 6, 35	1	20, 10, 16, 38
17 temperature	36,22, 6, 38	22, 35, 32	15, 19, 9	15, 19, 9	3, 35, 39, 18	35, 38	34, 39, 40, 18	35, 6, 4	2, 28, 36, 30	35, 10, 3, 21	35, 39, 19, 2	14, 22, 19, 32	1, 35, 32	10, 30, 22, 40	19, 13, 39	19, 18, 36, 40	+	32, 30, 21, 16	19, 15, 3, 17		2, 14, 17, 25	21, 17, 35, 38	21, 36, 29, 31		35, 28, 21, 18	3, 17, 30, 39	19, 35, 3, 10	32, 19, 24	24	22, 33, 35, 2	22, 35, 2, 24	26, 27	26, 27	4, 10, 16	2, 18, 27	2, 17, 16	3, 27, 35, 31	26, 2, 19, 16	15, 28, 35
18 lumination	19, 1, 32	2, 35, 32	19, 32, 16		19, 32, 26		2, 13, 10		40 43	26, 19, 6		32, 30	32, 3, 27	35, 19	2, 19, 6		32, 35, 19	+	32, 1, 19	32, 35, 1, 15	32	13, 16, 1. 6	13, 1	1,6	19, 1, 26, 17	1, 19		11, 15, 32	3, 32	15, 19	35, 19, 32, 39	28. 26		15, 17, 13, 16	15, 1, 1, 19	6, 32, 13	32, 15	2, 26, 10	2, 25, 16
energy consumption of mobile object	12,18,28	-	12, 28	-	15, 19, 25	-	35, 13, 18	-	8, 35, 35	16, 26, 21, 2	23, 14, 25	12, 2, 29	19, 13, 17, 24	5, 19, 9, 35	28, 35, 6, 18	-	19, 24, 3, 14		+	-	6, 19, 37, 18	12, 22, 15, 24	35, 24, 18, 5		35, 38, 19, 18	34, 23, 16, 18		3, 1, 32		1, 35, 6 27	2, 35, 6	28, 26, 30	19, 35		15, 17, 13, 16		35, 38	32, 2	12, 28, 35
20 energy consumption of stationary object		19, 9, 6, 27	-						-	36, 37			27, 4,	35				19, 2, 35, 32	-	+			28, 27,			3, 35,	10, 36,			10, 2, 22, 37							19, 35, 16, 25		1,6
21 power	8, 36, 38, 31	19, 26, 17, 27	1, 10,		19, 38	17, 32, 13, 38	35, 6, 38	30, 6, 25	15, 35,	26, 2, 36, 35	22, 10,	29, 14,	35, 32, 15, 31	26, 10, 28	19, 35, 10, 38	16	2, 14, 17, 25	16, 6, 19	16, 6, 19, 37		+	10, 35, 38	28, 27, 18, 38	10, 19	35, 20, 10. 6	4, 34, 19	19, 24, 26, 31	32, 15, 2	32, 2	19, 22,	2, 35,	26, 10, 34	26, 35,	35, 2, 10, 34	19, 17, 34	20, 19, 30, 34	19, 35,	28, 2,	28, 35,
22 waste of energy	00,02	19, 6, 18, 9		6, 38, 7	15, 26, 17, 30	17, 7,	7, 18,	7	16, 35, 38	36, 38	- 33	2,40	14, 2,	26	10, 30		,	1, 13,	13, 37		3, 38	+	35, 27, 2, 37	19, 10	10, 18,		11, 10,	32		,-	21, 35,	34	35, 32,	2, 19	34	7, 23	35, 3, 15, 23		28, 10,
23 waste of substance	35, 6,	35, 6,	14, 29,	10,	35, 2,	10, 18,	1, 29,	3, 39,	10, 13,	14, 15,		29, 35,	2, 14,	35, 28,			21, 36,			28, 27,	28, 27,	35, 27,	+		15, 18,	6, 3, 10,	10, 29,		35, 10,	33, 22,	10, 1,						35, 18,		28, 35,
24 loss of information	10, 24,	22, 32 10, 35,	10, 39	28,24	10, 31 30, 26	39, 31	30, 36	18, 31	28, 38	18, 40	37, 10	3, 5	30, 40	31, 40	3, 18	18, 38	39, 31	19	24, 5	12, 31	18, 38	2, 31		+		24 24, 28,		31, 28	24, 31	30, 40 22, 10,	10, 21,		2, 24		2	28, 24	10, 13 35, 33	18	10, 23
25 waste of time		5 10, 20,	15, 2,		26, 4, 5,	10, 35,		35, 16,	,	10, 37,	37, 36,4	4, 10,		29, 3,		28, 20,			35, 38,	1	35, 20,		35, 18,		28, 32	35 35, 38,		24, 34,		1 35, 18,		35, 28,	4, 28,	32, 1,	35, 28	6, 29	18, 28,	24, 28,	15
26 amount of substance	37, 35 35, 6,	26, 5 27, 26,	29 29, 14,	14, 5	16 15, 14,	17, 4 2, 18,	10 15, 20,	32, 18	35, 29,	36,5 35, 14, 3	10, 36,	34, 17 35, 14	22, 5 15, 2,	28, 18 14, 35,	28, 18 3, 35,	10, 16	21, 18 3, 17,	26, 17	19, 18 34, 29,		10, 6 35	18, 32 7, 18,	10, 39 6, 3, 10,	28, 32 24, 28,	35, 38,	18, 16	4 18, 3,	28, 32 13, 2,	28, 18 33, 30	34 35, 33,	18, 39 3, 35,	34, 4 29, 1,	10, 34 35, 29,		15, 3,	3, 13,	32, 10 3, 27,	35, 30 8, 35	13, 29,
27 reliability	18, 31 3, 8, 10,	18, 35 3, 10, 8,		15, 29,	29 17, 10,	40, 4 32, 35,	29 3, 10,	2, 35,	34, 28 21, 35,		14, 3 10, 24,	35, 14	17, 40	34, 10 11, 28	10, 40	31 34, 27,	39 3, 35,	11, 32,	16, 18 21, 11,	31 36, 23	21, 11,	25 10, 11,	24 10, 35,	35 10, 28	18, 16 10, 30,	21, 28,	28, 40	28 32, 3,	11, 32,	29, 31 27, 35,		35, 27	25, 10 27, 17,		29 13, 35,	27, 10 13, 35,	29, 18 27, 40,		3, 27 1, 35,
	40 32, 35,	28 28, 35,	14, 4 28, 26,	28, 11 32, 28,		40, 4 26, 28,	14, 24 32, 13,	24	11, 28 28, 13,	10, 3	35, 19 6, 28,	16, 11 6, 28,	32, 35,		25 28, 6,	6, 40 10, 26,	10 6, 19,	13	27, 19	-	26, 31	35 26, 32,	29, 39 10, 16,	10, 20	4 24, 34,	40, 3	5, 11, 1,	11, 23	1	2, 40 28, 24,	40, 26	6, 35,	40 1, 13,		8, 24 13, 35,	1 27, 35,	28 26, 24,	27 28, 2,	29, 38 10, 34,
28 accuracy of measurement		25, 26 28, 35,		3, 16	32, 3	32, 3 2, 29,	6 32, 23,	25, 10,	32, 24 10, 28,	32, 2 28, 19.	32	32 32, 30,	13	32	32 3, 27,	24	28, 24	6, 1, 32			3, 6, 32		31, 28 35, 31,		28, 32 32, 26,	2, 6, 32	23 11, 32,	+		22, 26 26, 28,		25, 18	17, 34 1, 32,		2	10, 34 26, 2,	32, 28	,	28, 32 10, 18,
29 manufacturing precision harmful factors acting on	13, 18 22, 21,	27, 9	29, 37	2, 32, 10	29, 32	18, 36	2 22, 23,	35 34, 39,	32	34, 36 13, 35,	3, 35	40 22, 1, 3,	30, 18	3, 27 18, 35,	40 22, 15,	17, 1,	19, 26 22, 33,	-7-	32, 2	10, 2,	32, 2 19, 22,	2	10, 24	22, 10,	28, 18 35, 18,	32, 30	1 27, 24,	28 33	26. 28.	10, 36		24, 35,	35, 23	25, 10	35, 11,	18	22, 19,		32, 39
object harmful side effects of the	27, 39	13, 24	39, 4	1, 18	33, 28 17, 2,	39, 35	37, 35 17, 2,		35, 28 35, 28,	39, 18 35, 28,	37	35	30, 18 35, 40,	37, 1	33, 28 15, 22,	40, 33	35, 2	32, 13	27	22, 37	31, 2	35, 2 21, 35,	19, 40	2	34	29, 31 3, 24,	2, 40		10, 18	+		2	28, 39	2	22, 31	29, 40	29, 40	34	13, 24
object	15, 39	1, 39	16, 22		18, 39	40	40	35, 4	3, 23		27, 18	35, 1	27, 39	22, 2	33, 31	16, 22	2, 24	39, 32	2, 35, 6	19, 22,	18	2, 22	34	29	1, 22	39, 1	40, 39	26	34, 26		+			<u> </u>		31	27, 1	2	18, 39
32 manufacturability	28, 29, 15, 16	36, 13	1, 29, 13, 17	15, 17, 27	26, 12	16, 40	13, 29, 1, 40	35	35, 13, 8, 1	35, 12	35, 19, 1, 37	13, 27	1	1, 3, 10, 32	27, 1, 4	35, 16	18	28, 24, 27, 1	28, 26, 27, 1	1, 4	27, 1, 12, 24	19, 35	15, 34, 33	32, 24, 18, 16	34, 4	35, 23, 1, 24		1, 35, 12, 18		24, 2		+	2, 5, 13, 16	11, 9	15	1	6, 28, 11, 1	8, 28, 1	35, 1, 10, 28
33 operation convenience	13, 15	6, 13, 1, 25	13, 12		1, 17, 13, 16	18, 16, 15, 39	1, 16, 35, 15	4, 18, 39, 31	18, 13, 34	28, 13 35	2, 32, 12	15, 34, 29, 28	32, 35, 30	3, 28	29, 3, 8, 25	1, 16, 25	26, 27, 13	1, 24	1, 13, 24		35, 34, 2, 10	13	28, 32, 2, 24	4, 10, 27, 22	4, 28, 10, 34	12, 35	17, 27, 8, 40	2, 34	1, 32, 35, 23	2, 25, 28, 39		2, 5, 12		12, 26, 1, 32	15, 34, 1, 16	32, 26, 12, 17		1, 34, 12, 3	15, 1, 28
34 repairability	2, 27 35, 11	2, 27, 35, 11	10, 25	3, 18, 31	32	16, 25	25, 2, 35, 11	1		1, 11, 10	13	1, 13, 2, 4	2, 35	11, 1, 2, 9	11, 29, 28, 27	1	4, 10	13	15, 1, 28, 16		15, 10, 32, 2	15, 1, 32, 19	34, 27		32, 1, 10, 25	2, 28, 10, 25	11, 10, 1, 16	13	25, 10	35, 10, 2, 16		1, 35, 11, 10		+	7, 1, 4, 16	35, 1, 13, 11		34, 35, 7, 13	1, 32, 10
35 adaptabilty	8	19, 15, 29, 16	35, 1, 29, 2	1, 35, 16	35, 30, 29, 7	15, 16	15, 35, 29		14	15, 17, 20	35, 16	15, 37, 1, 8	35, 30, 14	32, 6	13, 1, 35	2, 16	35	6, 22, 26, 1	19, 35, 29, 13		19, 1, 29	18, 15, 1	2, 13	L T	35, 28	15	35, 13, 8, 24	10		35, 11, 32, 31		1, 13, 31	1, 16	1, 16, 7, 4	+	15, 29, 37, 28	1	35	35, 28, 6, 37
36 complexity of device	26, 30, 34, 36	2, 26, 35, 39	1, 19, 26, 24	26	14, 1, 13, 16	6, 36	34, 26, 6	1, 16	34, 10, 28	26, 16	19, 1, 35	29, 13, 28, 15	2, 22, 17, 19	2, 13, 28	10, 4, 28, 15		2, 17, 13	24, 17, 13	27, 2, 29, 28		20, 19, 30, 34		35, 10, 28, 29		6, 29	13, 3, 27, 10	13, 35,	2, 26, 10, 34	26, 24, 32	22, 19, 29, 40		27, 26, 1, 13	27, 9, 26, 24	1, 13	29, 15, 28, 37	+	15, 10, 37, 28	15, 1, 24	12, 17, 28
37 complexity of control	27, 26, 28, 13	6, 13, 28, 1	16, 17,	26	2, 13, 18, 17		29, 1, 4, 16	2, 18, 26, 31	3, 4, 16, 35	30, 28, 40, 19	35, 36, 37, 32		11, 22,	27, 3, 15, 28	19, 29,	25, 34, 6, 35	3, 27, 35, 16		35, 38	19, 35, 16	18, 1, 16, 10	35, 3,	1, 18,	35, 33, 27, 22	18, 28, 32, 9	3, 27, 29, 18	27, 40, 28, 8	26, 24,		22, 19, 29, 28		5, 28, 11, 29	2, 5	12, 26	1, 15	15, 10, 37, 28	+	34, 21	35, 18
38 level of automation	28, 26,		14, 13,	23	17, 14,	25, 20	35, 13, 16	,	28, 10		13, 35	15, 32, 1, 13	18, 1	25, 13	6, 9	2,23	26, 2,		2, 32, 13		28, 2,		35, 10, 18, 5	35, 33	24, 28, 35, 30		11, 27,	. , .	28, 26, 18, 23	2,33	2	1, 26,	1, 12, 34, 3	1, 35, 13	27, 4, 1,		34, 27,	+	5, 12, 35, 26
39 productivity	35, 26, 24, 27	28, 27,	18, 4,	30, 7,		10, 35,	2, 6, 34,	35, 37,		28, 15,	10, 37,	1, 13	35, 3, 22, 39		35, 10, 2, 18			26, 17,	35, 10,	1	35, 20, 10	28, 10,	28, 10,	13, 15,	33, 30	35, 38	1, 35, 10, 38		18, 23 18, 10, 32, 1	22, 35,		35, 28,			1, 35,	12, 17,	35, 18,	5, 12,	+
LL .	24,3/	15, 3	28, 38	14, 26	34, 31	1/,7	10	10, 2		10, 36	14	34, 40	22, 39	10, 18	2, 18	16, 38	28, 10	19, 1	38, 19	1	10	29, 35	35, 23	23			10, 38	34, 28	32, 1	13, 24	18, 39	2, 24	10	10, 25	28, 37	28, 24	21,2	35, 26	

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