(a) Case 1

$L(n) = 2L(n/3) + 6n^3$
$a = 2, b = 3, d = 3$
$a < b^d$
$2 < 3^3$
$O(n^3)$

(b) Case 3

$L(n) = 4L(n/2) + 16$
$a = 4, b = 2, d = 0$
$a > b^d$
$4 > 2^0$
$O\left(n^{\log_2 4}\right) = O\left(n^2\right)$

3,4,5,7,9 size
5,7,9,11,14 val

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
cost	0	0	5	5	5	10	10	10	15	15	15	20	20	20	25	25	25	30	30	30	35
best			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
cost	0	0	5	7	7	10	12	14	15	17	19	21	22	24	26	28	29	31	33	35	36
best			1	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
cost	0	0	5	7	9	10	12	14	16	18	19	21	23	25	27	28	30	32	34	36	37
best			1	2	3	1	2	2	3	3	2	2	3	3	3	2	3	3	3	3	3
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
cost	0	0	5	7	9	10	12	14	16	18	19	21	23	25	27	28	30	32	34	36	37
best			1	2	3	1	2	2	3	3	2	2	3	3	3	2	3	3	3	3	3
E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
cost	0	0	5	7	9	10	12	14	16	18	19	21	23	25	27	28	30	32	34	36	37
best			1	2	3	1	2	2	3	3	2	2	3	3	3	2	3	3	3	3	3

4	8-4	12-4	16-4	21-5
B	B	B	B	C

Maršrutas	4	5	2	1	3	4			
Kainos		2	4	5	2	21	Viso:	34	

	1	2	3	4	5	
1	inf	5	2	12	23	-2
2	5	inf	12	28	12	-5
3	6	16	inf	21	14	-6
4	3	29	13	inf	2	-2
5	25	4	13	5	inf	-4
				-1		20

Bound 0 20

	1	2	3	4	5		
1	inf	3	0	9	21	D[1,3] = 3 + 7	10
2	0	inf	7	22	7	D[2,1] = 7 + 0	7
3	0	10	inf	14	8	D[3,1] = 9 + 0	9
4	1	27	11	inf	0	D[4,5] = 1 + 7	8
5	21	0	7	0	inf	D[5,2] = 0 + 3	3
						D[5,4] = 0 + 9	9

top Bound 1,3 30

	1	2	4	5	
2	0	inf	22	7	
3	inf	10	14	8	-8
4	1	27	inf	0	
5	21	0	0	inf	

bot Bound 1,3 28

	1	2	4	5		
2	0	inf	22	7	D[2,1] = 7 + 1	8
3	inf	2	6	0	D[3,5] = 2 + 0	2
4	1	27	inf	0	D[4,5] = 1 + 0	1
5	21	0	0	inf	D[5,2] = 0 + 2	2
					D[5,4] = 0 + 6	6

top Bound 2,1 36

bot Bound 2,1 28

	2	4	5		
3	2	6	0	D[3,5] = 1 + 0	1
4	27	inf	0	D[4,5] = 27 + 0	27
5	0	0	inf	D[5,2] = 0 + 1	1
				D[5,4] = 0 + 5	5

				top	Bound 4,5	55
			2	4		
		3	2	6	-2	
		5	0	inf		
				-4		
				bot	Bound 4,5	34
			2	4		
		3	0	0		
		5	0	inf		
				top	Bound 3,4	34
			2			
		5	0			

4,5 5,2 2,1 1,3 3,4