

D463R1-2 task.pdf

1. feladat

$$N1 = 226$$

226	0
113	1
56	0
28	0
14	0
7	1
3	1
1	1

11100010

$$N2 = 3950$$

3950	0
1975	1
987	1
493	1
246	0
123	1
61	1
30	0
15	1
7	1
3	1
1	1

111101101110

$$N3 = 2025$$

2025	1
1012	0
506	0
253	1
126	0
63	1
31	1
15	1
7	1
3	1
1	1

11111101001

2. feladat

$$N1 = 637$$

$$6^2 \cdot 16^1 \cdot 16^0$$

$$12 \cdot 16^2 + 3 \cdot 16^1 + 15 \cdot 16^0$$

$$3072 + 48 + 15 = 3135$$

110000111111

3135	1
1567	1
783	1
391	1
195	1
97	1
48	0
24	0
12	0
6	0
3	1
1	1

$$N2 = B7A$$

$$11 \cdot 16 + 10$$

$$11 \cdot 256 + 7 \cdot 16 + 10 \cdot 1$$

$$2816 + 112 + 10 = 2930$$

$$10110111010$$

2930	0
1469	1
734	0
367	1
183	1
91	1
45	1
22	0
11	1
5	1
2	0
1	1

$$N3 = 772$$

$$15 \cdot 16 + 15 \cdot 2$$

$$15 \cdot 256 + 15 \cdot 16 + 2$$

$$3840 + 242 = 4082$$

4082	0
2041	1
1020	0
510	0
255	1
127	1
63	1
31	1
15	1

7	1
3	1
1	1

11111110010