

A	B	C	D	$A\bar{B}C\bar{D}$	$\overline{A\bar{B}C\bar{D}}$	$\overline{A\bar{B}C\bar{D}}$	$A\bar{B}C\bar{D}$
0	0	0	0	0	1	1	0
0	0	0	1	0	1	1	0
0	0	1	0	0	1	0	0
0	0	1	1	0	1	0	0
0	1	0	0	1	1	0	0
0	1	0	1	0	1	0	0
0	1	1	0	0	1	0	1
0	1	1	1	0	1	0	0
1	0	0	0	0	1	0	0
1	0	0	1	0	1	0	0
1	0	1	0	0	1	0	0
1	0	1	1	0	1	0	0
1	1	0	0	0	1	0	0
1	1	0	1	0	1	0	0
1	1	1	0	0	1	0	0
1	1	1	1	0	0	0	0

1.a) (A.B.C.D)

Handwritten work for the division of 25912 by 2 :

$$\begin{array}{r} 25912 : 2 \\ \underline{2} \\ 05 \\ \underline{4} \\ 19 \\ \underline{18} \\ 1 \end{array}$$

The final result is 12956 .

$$2_d(10000001)_2$$

b) 01000011 - some partitions are smaller than
complement 2.