

Computer Structure and Language Exercises #1

Problem 1)

- a) C667 (no: a positive and a negative number are added)
- b) 1AE7C (no: 1 at the first must be omitted)
- c) 11634 (yes)

Problem 2)

- a) C070 (no)
- b) 17FFD (yes)

Problem 3)

- a) 011111
- b) 111111
- c) $-(2^5 - 1) \xrightarrow{to} (2^5 - 1)$

Problem 4)

- a) 01111
- b) 10000
- c) $-(2^5 - 1) \xrightarrow{to} (2^5 - 1)$

Problem 5)

$\begin{array}{r} 00001011 \\ +10101011 \\ \hline \end{array}$	$\begin{array}{r} 10001011 \\ +10101000 \\ \hline \end{array}$	$\begin{array}{r} 00110011 \\ +01100100 \\ \hline \end{array}$	$\begin{array}{r} 11001100 \\ +00101001 \\ \hline \end{array}$	$\begin{array}{r} 10000001 \\ +10000000 \\ \hline \end{array}$
--	--	--	--	--

- (a)
- (b)
- (c)
- (d)
- (e)

- a) 10110110 COZS=0001
- b) 100110011 COZS=1100
- c) 10010111 COZS=0101
- d) 11110101 COZS=0001
- e) 100000001 COZS=1100

