

Computer Architecture Hw 1

1. Write a MIPS program which reads 10 integers from users, finds the minimum and prints it to the screen. Please first write the pseudocode (25 points).

Example :

User enters sequentially these numbers: 3 1 6 5 0 8 4 7 9 9

Output : 0

2. Write a MIPS program with comments that will find the count of negative numbers in an array of integers and will display this count. Please first write the pseudocode (35 points).

Example :

array : .word 3,-15,6,-4,-3,8

Output : 3

3. Write a MIPS program with comments that will copy the square of each element of an array to another. Please first write the pseudocode (40 points).

Example

array1 : .word 3,1,6,4,9,8

array2 : .word 0,0,0,0,0,0

After the execution :

array2 has 9,1,36,16,81,64 and this is displayed.

Grading Note: Pseudocode gets the half of the points for each question. Please define register mapping for each question in pseudocode.

Deadline: 23. June. 2012, 23.59

Submission: Please submit your homework to the Online Course System. Other submissions will **NOT** be graded. Please contact Esra Ruzgar for further questions.

Homework Policies:

1. Cheating is strongly discouraged.
2. Late homeworks will be graded as 0.
3. Please comment your source codes.

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