Name, Surname : Number :

Course Code : EEN261

Course Name : Computer Programming II

Exam : ○Midterm ○ Make-up ● Final

Date :05.01.2016

Please make sure to write your name and student number on each paper that you have used

Question Number	1(30p)	2(10p)	3(20p)	4(30p)	5(40p)	Total
Mark						

Note:

- 1-Exam duration is 70 minutes only. 2- You cant take any other paper. Please use your paper efficiently!
- 3-You are not permitted to carry your mobile phone into the exam venue even if it is switched off.!!!!

Questions

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1-(30p)(Prime Numbers) An integer is said
                                              4(30p)- Write a program
                                                                        which has an float array. And
to be prime if it's divisible by only 1
                                              the size of array is 20.
and itself. For example, 2, 3, 5 and 7
                                                 a-Read all values of array from keyboard(5p).
are prime, but 4, 6, 8 and 9 are not.
                                                 b-Find the maximum value of in the array(20p)
Write a function that determines the
                                                 c-Write maximum value on the screen(5p)
number is prime or not. if the {\bf number} is
prime returns 1 otherwise return 0.
                                              5(40p)What does the following program output and
The function take one integer number as a
                                              Explain the output comming from where? (Only Output
parameter and return a integer value.
                                              even it is correct) or (only explanation even it is
                                              correct) \underline{\text{or}} (wrong \underline{\text{Explanation}} with correct answer) \underline{\text{is}}
         Write a program that calculates
                                              zero point!
and prints the sum of the even integers
                                              #include <stdio.h>
from x to y.
                                              //Prototypes
x and y are entered by keybord. Assume
                                              void sp1(int a, int b);
that x is less than y.
                                              void sp2(int a[ ], int b[ ]);
                                              void sp3(int *a, int *b);
3-(20p) Write a function
                                              int main(){
integerPower(base, exponent) that returns
                                              int a[2] = {3, 4};
the value of base exponent
                                              int b[2] = {1, 5};
                                              sp1(a[0], a[1]);
For example,
                                              sp2(a, b);
integerPower( 3, 4 ) calculates 3 * 3 * 3
                                              sp3(&b[0], &b[1]);
* 3. and returns 81
                                              printf("%d, %d, %d, %d \n", a[0], a[1], b[0], b[1]);
Assume that exponent is a positive,
nonzero integer, and base is an integer.
                                              return 0;}
Function integerPower should use for to
                                              //functions
control the calculation. Do not use any
                                              void sp1(int a, int b){
math library functions.
                                              int temp = a;
                                              a = b;
                                              b = temp;}
                                              void sp2(int a[ ], int b[ ]){
                                              int temp = a[0];
                                              a[0] = b[0];
                                              b[0] = temp;}
                                              void sp3(int *a, int *b){
                                              int temp = *a;
                                              *a = *b;
                                              *b = temp;}
```

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