

---

**ISTANBUL AYDIN UNIVERSITY**

---

Name, Surname :

Number :

Course Code :

Course Name :

Exam :  Quiz

Midterm

Final

Date :05.01.2015

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

Question Number	1(1p)	2(20p)	3(30)	4(20p)	5(30p)	6(30p) bonus	Total
Mark							

**Note: Exam duration is 100 minutes only. You dont get any other paper.Please use your paper efficiently!**

### Questions

1-(1p) Write a program that write your name and surname on the screen!

2-(20p) Write a function in C that accepts a floating-point array and its size as argument and returns only the average of that values in the array..

3-(30p) Define a function called "area" that calculates the length of the area of a rectangle when the two sides are given. The function should take two arguments of type float and return the area as a float.

4-(20p) Write a function that calculates the sum of the odd integers from 7 to 25 and return the result.

6-(30p-bonus) Write function distance that calculates the distance between two points (x1, y1) and (x2, y2). All numbers and return values should be of type double.(if you need square root of some number you can use sqrt function at math.h library. Usage example: a=sqrt(b); which means "a" is equal to square root of "b")

5-(30p) What does the following program output and Explain the output comming from where? (Only Output) or (wrong Explanation with correct answer) **is zero point!**

```
#include <stdio.h>
//Prototypes
void swap1(int a, int b);
void swap2(int a[ ], int b[ ]);
void swap3(int *a, int *b);

int main(){
int a[2] = {3, 9};
int b[2] = {1, 2};
swap1(a[0], a[1]);
swap2(a, b);
swap3(&b[0], &b[1]);
printf("%d, %d, %d, %d \n", a[0], a[1], b[0], b[1]);
return 0;}
//functions
void swap1(int a, int b){
int temp = a;
a = b;
b = temp;}
void swap2(int a[ ], int b[ ]){
int temp = a[0];
a[0] = b[0];
b[0] = temp;}
void swap3(int *a, int *b){
int temp = *a;
*a = *b;
*b = temp;}
```

Yrd.Doç.Dr. Oğuz Ata