Name: KEY Id#

ICS 103, Term 092

Computer Programming in C

Quiz# 4

 Date: Tuesday, May 23, 2010

**Q1.** **Find the output of each of the following programs:**

|  |  |
| --- | --- |
| **Program** | **Output** |
| 1. **5 points**

**#include <stdio.h>** **int test(int a[], int t, int n)** **{** **int i=0, j=-1, k=0;**  **while (!k && i < n) {** **if (a[i] == t)k = 1;** **else i++;** **}** **if (k) j=i;**  **return j;****}****int main(void)****{** **int x[]={10, 5, 15, 20, 1, 20};**  **printf("%d\n", test(x, 20, 6));** **return 0;****}**   |  The program will search for the target value 20 in the array and will return the index where it is first found. Thus, it will print: 3 |
| 1. **5 points**

 **#include <stdio.h>****int main(void)****{** **int x[]={2, 5, 3, 4, 1};**  **int i, j, k, l;**  **for (i=0; i<4; i++) {** **k=i;**  **for (j=i+1; j<5; j++)** **if (x[j] > x[k])** **k = j;** **l=x[i]; x[i]=x[k]; x[k]=l;** **}** **for (i=0; i<5; i++)**  **printf("%d ", x[i]);** **return 0;****}**  | The program will sort the array in descending order. Thus, it will print:5 4 3 2 1 |