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 |