

Name:

Id#

ICS 103, Term 083

Computer Programming in C

Quiz# 4

Date: Tuesday, August 25, 2009

Find the output of each of the following programs:

Program	Output
<p>(i) 5 points</p> <pre>#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}; printf("%d\n", test(x,15,5)); return 0; }</pre>	

(ii)

5 points

```
#include <stdio.h>

int main(void)
{
    int x[]={10, 5, 15, 20, 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;
}
```

(iii)

5 points

```
#include <stdio.h>
#include <string.h>

int main(void)
{
    int i;
    char x[]="ICS";

    for (i=0; i<strlen(x); i++)
        puts(&x[i]);

    return 0;
}
```

(iv)

5 points

```
#include <stdio.h>
#include <string.h>

int main(void)
{
    int i;
    char x[5]={0}, y[]="A";

    for (i=0; i<4; i++){
        strcat(x,y);
        y[0]++;
        puts(x);
    }

    return 0;
}
```