

Name:

Id#

ICS 103, Term 083

Computer Programming in C

Quiz# 3

Date: Tuesday, August 18, 2009

Find the output of the following programs:

Program	Output
<p>(i) 6 points</p> <pre>#include <stdio.h> void test1(int x, char htable[]); int main(void) { int x=125; char htable[]={'0','1','2','3', '4','5','6','7','8','9','A','B', 'C','D','E','F'}; test1(x, htable); printf("\n"); return 0; } void test1(int x, char htable[]){ if (!x) return; else test1(x/16, htable); printf("%c", htable[x%16]); }</pre>	

(ii)

6 points

```
#include <stdio.h>
#define SIZE 10
void test2 (int x[], int n){
    int i;
    for (i=0; i<n; i++)
        x[i]=i*i;
}
void test3 (int x[], int n){
    int i,j;
    for (i=0; i<n/2; i++){
        j=x[i];
        x[i]=x[n-i-1];
        x[n-i-1]=j;
    }
}
void test4 (int x[], int n){
    int i;
    for (i=0; i<n; i++)
        printf("%d ",x[i]);
    printf("\n");
}
int main(void)
{
    int x[SIZE];
    test2(x, SIZE);
    test3(x, SIZE);
    test4(x, SIZE);
    return 0;
}
```