Name: Id#

ICS 103, Term 093

Computer Programming in C

Quiz# 4

 Date: Saturday, August 21, 2010

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

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| #include <stdio.h>#include <string.h>#include <ctype.h>int main() { char str[]="ICS 103 Quiz#4"; int i=0; while (str[i] != '\0') { if ( isdigit(str[i]) ) str[i]='\*';  else str[i]=toupper(str[i]);  i++; }  puts(str); return 0;} |  |
| #include <stdio.h>#include <string.h>int main() { char orig[100]="Ali Ahmad Ibrahim Khaled"; char updated[100]="", temp[100], \*token;  token=strtok(orig," "); while (token != NULL) { strcpy(temp,token); strcat(temp," "); strcat(temp,updated); strcpy(updated,temp); token=strtok(NULL," "); }  puts(updated); return 0;} |  |

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| #include <stdio.h>int main() {  int x[]={100,5,15,25}; int i, j = 1, k, t;  do{ k = 0; for(i = 0; i < 4-j; i++) { if (x[i] > x[i+1]) { t=x[i];  x[i]=x[i+1];  x[i+1]=t;  k = 1; } } j++; for (int i=0; i<4;i++) printf("%d ",x[i]); printf("\n");  } while (k==1 && j < 4); return 0;} |  |
| #include <stdio.h>int main() {  int x[]={1,5,10,20,32,50};  int s=0, e=5, t=5, m, f=0, w;  while (s <= e && !f) {  m=(s + e)/2;  printf("%d\t%d\t%d\n",s,e,m); if (x[m] == t) {f=1; w=m;}  else if (x[m] < t) s=m+1; else e=m-1;  } if (!f) w=-1; printf("%d\n",w); return 0;} |  |