Name: KEY Id#

ICS 103, Term 103

Computer Programming in C

Quiz# 4

Date: Sunday, August 14, 2011

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

|  |  |
| --- | --- |
| #include <stdio.h>  #include <string.h>  #include <ctype.h>  int main() {  char str1[]={"ICS 103 is Interesting"};  char \*t;  int count=0;  t = strtok(str1, " ");  while ( t != NULL ) {  if (tolower(t[0])=='i'){  puts(t);  count++;  }  t = strtok(NULL, " ");  }  printf("%d\n", count);  return 0;  } | ICS  is  Interesting  3 |
| #include <stdio.h>  int main(void)  { int A[6] = {11,12,19,27,33,42};  int i, count=0;  for (i=0; i < 6;i++)  if ((A[i] % 3)==0) {  printf("%d ", A[i]);  if ((A[i] % 6)==0)  continue;  count++;  }  printf("\n%d", count);  return 0;  } | 12 27 33 42  2 |

|  |  |
| --- | --- |
| #include <stdio.h>  #include <string.h>  int main(void) {  char str[4][80]={"ICS", "SWE", "SE", "COE"};  char tstr[80];  int i, p=1, s;  do{  s = 0;  for(i = 1; i <= 4-p; i++) {  if (strcmp(str[i-1],str[i])<0){  strcpy(tstr,str[i-1]);  strcpy(str[i-1],str[i]);  strcpy(str[i],tstr);  s=1;  }  }  p++;  for (i=0; i<4; i++)  puts(str[i]);  } while (s==1 && p <= 3);  return 0;  } | SWE  SE  ICS  COE  SWE  SE  ICS  COE |
| //show the values of matrix A resulting from //executing the program shown below  #include <stdio.h>  int main (void){  int A[3][4],i,j;  for(i=0; i < 3; i++)  for(j=0; j < 4; j++)  if (i < 1)  A[i][j] = j+2;  else  A[i][j] = A[i-1][j]\*j;  return 0;  } | |  |  |  |  | | --- | --- | --- | --- | | 2 | 3 | 4 | 5 | | 0 | 3 | 8 | 15 | | 0 | 3 | 16 | 45 | |