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:

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| #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;} | ICSisInteresting3 |
| #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 33 422 |

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| #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;} | SWESEICSCOESWESEICSCOE |
| //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;} |

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| 2 | 3 | 4 | 5 |
| 0 | 3 | 8 | 15 |
| 0 | 3 | 16 | 45 |

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