Name: KEY Id#

ICS 103, Term 092

Computer Programming in C

Quiz# 5

Date: Tuesday, May 23, 2010

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

|  |  |
| --- | --- |
| **Program** | **Output** |
| 1. **(5 points)**   #include <stdio.h>  int main() {  int j, k ;  int b[3][3]={1,2,3,4,5,6,7,8,9};  for (k=0;k<3;k=k+2) {  for (j=2;j>=0;j--)  printf("%d\t",b[j][k]);  printf("\n");  }  return 0;  } | **7 4 1**  **9 6 3** |
| 1. **(5 points)**     #include <stdio.h>  #include <string.h>  int mystrcmp(char s1[], char s2[]) {  return strlen(s1)-strlen(s2);  }  int main() {  int i;  char text[3][10]={"AB","CDE","F"};  for(i=0;i<2;i++) {  if(mystrcmp(text[i],text[i+1])>0)  strcat(text[i],text[i+1]);  else if(mystrcmp(text[i],text[i+1])<0)  strcat(text[i+1],text[i]);  else  strcpy(text[i+1],text[i]);    puts(text[i]);  }  return 0;  } | **AB**  **CDEABF** |

**Q2. Write a function that receives a two-dimensional array of integers, the number of columns and two row numbers i and j. The function exchanges the two rows i and j. (5 points)**

void swapr(int x[][MAXC], int nc, int i, int j){

int t;

for (int k=0; k<nc; k++){

t = x[i][k];

x[i][k]=x[j][k];

x[j][k]=t;

}

}