Applied Programming
Final, Fall 2014

Q1 [10] Programming Basics

What is the value of variables **x**, **y** Just before the return statement of function main? Also what will be stored in **arr3** before the end of main function?

```
#include <iostream>
using name space std;
void  MysteryFunction(int arr1[],int arr2[],int arr3[],int size);
void  ProcessCode(int Code1, int & Code2);
const int SIZE=5;

int main()
{     int x = 1,y=5;
      int arr1[SIZE]={1,3,7,9,23};        int arr2[SIZE]={2,8,10,12,24};     int arr3[SIZE*2]={0};
      ProcessCode(x,y);
      switch(x+y)
      {
              case 1:
              case 2:  MysteryFunction(arr1,arr2,arr3,SIZE-1);          break;
              case 3: MysteryFunction(arr1,arr2,arr3,SIZE);             break;
              case 4: MysteryFunction(arr1,arr2,arr3,SIZE-2);           break;
      }
      //what is the final value of the variables?
      return 0;
}
```

```
void MysteryFunction(int arr1[],int arr2[], int arr3[],int size)
{
        int i=0,k=0,j=0;
        while (i<size || j< size)
        {
                if ((i < size) && (arr1[i] < arr2[j]))
                {       arr3[k] = arr1[i];
                        i++;
                }
                else
                {
                        arr3[k] = arr2[j];
                        j++;
                }
                k++;
        }
}
```

```
void ProcessCode(int Code1,int &Code2)
{
        Code1 = Code1+1;
        Code2 = Code2-4;
}
```

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RM Cervero

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