Introduction to Computer Science

Quiz 5 Solution

SECTION G

Tuesday, 11th November, 2014.

**TO SOLVE: Write the values of the variables in the boxes provided AFTER a statement is executed.**

|  |  |
| --- | --- |
| void func1(intarr[],inta,int b)  {  int i=0;  for (i=0;i<a;++i)  arr[i] = i+b;  } | bool func2(int arr1[],int arr2[],inta,int b)  {  int i=0,j=0;  bool flag=false;  for (i=0;i<a-b+1&&!flag;++i)  {  flag = true;  for (j=0;j<b&&flag;++j)  {  if (arr1[i+j] != arr2[j])  flag = false;  }  if (flag)  {  for (j=0;j<b;++j)  arr1[j] = arr2[j];  }  }  return flag;  } |

**SOLUTION:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **arr1 (all items)** | **arr2 (all items)** | **b** | **L** |
| **int main()** |  |  |  |  |
| **{** const int L=10;  int arr1[L]={0};  int arr2[L]={0}; | arr1[0]=0;  arr1[1]=0;  arr1[2]=0;  arr1[3]=0;  arr1[4]=0;  arr1[5]=0;  arr1[6]=0;  arr1[7]=0;  arr1[8]=0;  arr1[9]=0; | arr2[0]=0;  arr2[1]=0;  arr2[2]=0;  arr2[3]=0;  arr2[4]=0;  arr2[5]=0;  arr2[6]=0;  arr2[7]=0;  arr2[8]=0;  arr2[9]=0; | Not defined  yet | 10 |
| func1(arr1,L,4); | arr1[0]=4;  arr1[1]=5;  arr1[2]=6;  arr1[3]=7;  arr1[4]=8;  arr1[5]=9;  arr1[6]=10;  arr1[7]=11;  arr1[8]=12;  arr1[9]=13; | arr2[0]=0;  arr2[1]=0;  arr2[2]=0;  arr2[3]=0;  arr2[4]=0;  arr2[5]=0;  arr2[6]=0;  arr2[7]=0;  arr2[8]=0;  arr2[9]=0; |  | 10 |
| func1(arr2,L,2); | arr1[0]=4;  arr1[1]=5;  arr1[2]=6;  arr1[3]=7;  arr1[4]=8;  arr1[5]=9;  arr1[6]=10;  arr1[7]=11;  arr1[8]=12;  arr1[9]=13; | arr2[0]=2;  arr2[1]=3;  arr2[2]=4;  arr2[3]=5;  arr2[4]=6;  arr2[5]=7;  arr2[6]=8;  arr2[7]=9;  arr2[8]=10;  arr2[9]=11; |  | 10 |
| bool b = func2(arr2,arr1,L,4); | arr1[0]=4;  arr1[1]=5;  arr1[2]=6;  arr1[3]=7;  arr1[4]=8;  arr1[5]=9;  arr1[6]=10;  arr1[7]=11;  arr1[8]=12;  arr1[9]=13; | arr2[0]=4;  arr2[1]=5;  arr2[2]=6;  arr2[3]=7;  arr2[4]=6;  arr2[5]=7;  arr2[6]=8;  arr2[7]=9;  arr2[8]=10;  arr2[9]=11; | true | **10** |
| return 0;  **}** |  |  |  |  |