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/* HW05 Sahin Egilmez 131044059 part2.c
 Created on 21/03/2015 by Sahin Egilmez
/*Description
/*C program for doing some operation in any array
      - Any array
/*Outputs:
    - Print to screen max. value, second max. value in array, sum all array
      - Print to screen count and location in array of enter value.
Includes
#include<stdio.h>
typedef enum {TRUE= 1,FALSE= 0} BOOL;
Function Prototypes
int find_maximum(int a[], int n);/*find max value in array
int second_max_array(int array[], int n);/*find second max value in array
                                                          */
int sum_all_array (int array[], int n);/*find sum of all array
int count_array(int array[], int n, int value);/*find count of value in array
BOOL search_array (int array[], int n, int value);/*find location in array
int main()
     int sec_max,max,sum;/*defines second max value,second max value, sum. */
      int count,value;/*defines count of values in array and defines value
      int i,k,j;/*defines some integers for loops and scanf function*/
      int array[]={6,8,3,3,12,8,3,8,2};/*array what use in this program*/
      int n=9;/*array size*/
      max=find_maximum(array,n);/*call find maximum function*/
     printf("Maksimum array is %d\n",max);/*print to screen maximum value*/
     sec max=second max array(array,n);/*call second maximum function*/
     sum=sum_all_array(array,n);/*call sum of all array function*/
     printf("Sum of all array is %d\n",sum);/*print sum value*/
     /*this loop for enter value at three times*/
      for(j=0; j<3; j++) {
           printf("Plese enter value for count: ");
           scanf("%d",&value);/*scan the keyboard to value*/
           count=count_array(array,n,value);/*call count array function*/
           printf("Count of value %d is %d\n",value,count);/*print count*/
     /*this loop for enter valu at three times*/
      for(k=0; k<3; k++) {
     printf("Please enter value for location in array: ");
      scanf("%d",&i);/*scan value for function*/
      search_array(array,n,i);/*call search array*/
     return 0;
}
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int find maximum(int array[], int n)/*find max value in array */
       int i,max=0;
       for(i=0; i<n; i++){
              if(array[i] > max){
              max=array[i];
       return max;
}
int second max array(int array[], int n)/*find second max value in array */
       int i, max, x=0, sec_max=0;
       max=find_maximum(array,n);
       for(i=0; i<n; i++){
              sec_max=x;
              if(\bar{a}rray[i] > x){
              x=array[i];
                     if(x==max){
                            x=sec_max;
                     }
              }
       return sec_max;
}
int sum_all_array (int array[], int n)/*find sum of all array */
{
       int i, sum=0;
       for(i=0; i<n; i++){</pre>
              sum += array[i];
       return sum;
}
int count_array(int array[], int n, int value)/*find count of value in array */
       int i, count = 0;
       for(i=0; i<n; i++){</pre>
              if (array[i] == value)
              {
                     count++;
              }
       return count;
}
BOOL search_array(int array[], int n, int value)/*find location in array */
       int i;
       for(i=0; i<n; i++){</pre>
              if (array[i]==value) {
              printf("%d is at [%d]\n",value,i);
              return TRUE;
              }
       printf("This array haven't this value!\n");
       return FALSE;
}
End of HW05_Sahin_Egilmez_131044059_part2.c
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