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Given an array of length 10, write a program to sort the given array in
ascending order
Sample Input:
1 5 6 4 3 2 7 9 8 10
Sample Output:
1 2 3 4 5 6 7 8 9 10
solution:
#include<stdio.h>
int main(){
  int element[10],i,j,temp;
  printf("enter 10 integer numbers:");
  for(i=0;i<10;i++){
     scanf("%d", &element[i]);
  for(i=0;i<10-1;i++){
     for(j=i+1; j<10; j++) {
        if(element[i]>element[j]){
          temp=element[i]; //swapping element[i] with element[j]
          element[i]=element[j];
          element[j]=temp;
  printf("Elements are now in ascending order:");
  for(i=0;i<10;i++)
     printf("%d",element[i]);
  return 0;
}
Find the Smallest and Largest Element in an Array
#include<stdio.h>
int main()
int a[50],i,n,large,small;
printf("\nEnter the number of elements : ");
scanf("%d",&n);
printf("\nInput the array elements : ");
for(i=0;i<n;++i)
scanf("%d", &a[i]);
large=small=a[0];
for(i=1;i<n;++i)
if(a[i]>large)
large=a[i];
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if(a[i]<small)</pre>
small=a[i];
printf("\nThe smallest element is %d\n", small);
printf("\nThe largest element is %d\n", large);
return 0;
###################
Get n numbers from user and print the difference between largest number
and smallest number
#include <stdio.h>
int main() {
   int a[10], n;
   int largest1, largest2, i;
   printf("enter number of elements you want in array");
   scanf("%d", &n);
   printf("enter elements");
   for (i = 0; i < n; i++) {
       scanf("%d", &a[i]);
   largest1 = a[0];
   for (i = 0; i < n; i++) {
      if (a[i] > largest1) {
          largest1 = a[i];
   largest2 = a[0];
   for (i = 1; i < n; i++) {
       if (a[i] > largest2 && a[i] < largest1)</pre>
          largest2 = a[i];
   printf("First and second largest number is %d and %d ", largest1,
largest2);
   printf("difference:");
   printf("%d",largest1-largest2);
}
###################
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Get 10 numbers from user and print the difference between largest even
number and
largest odd number in given elements
solution:
#include<stdio.h>
int main(){
   int
arr[]={3,7,9,10,18,30,11,24,48,54,68,12,16,4,18,60,32,33,17,29},curr=0,cu
rr1=0;
   int n =sizeof(arr)/sizeof(arr[0]);
   for(int i=0;i<n;i++){
       if(arr[i]%2==0 && arr[i]>curr){
           curr=arr[i];
       }
   }
     for(int i=0;i<n;i++){
       if(arr[i]%2!=0 && arr[i]>curr1){
           curr1=arr[i];
       }
   }
   printf("%d %d diff=%d", curr, curr1, curr-curr1);
   return 0;
}
###########################
Get 10 numbers from user and print the difference between largest even
number and
smallest odd number in given elements
#include<stdio.h>
int main(){
   int
arr[]={3,7,9,10,18,30,11,24,48,54,68,12,16,4,18,60,32,33,17,29},curr=0,cu
rr1=0:
   int n =sizeof(arr)/sizeof(arr[0]);
   for(int i=0;i<n;i++){
       if(arr[i]%2==0 && arr[i]>curr){
           curr=arr[i];
       }
   curr1=arr[0];
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for(int i=0;i<n;i++){</pre>
      if(arr[i]%2!=0 && arr[i]<curr1){</pre>
         curr1=arr[i];
      }
   }
##############################
Get 10 elements from user and print the diffenece between sum of odd
numbers and sum even
solution:
#include <stdio.h>
int main() {
   int arr[10], sum=0, count=0, n;
   printf("enter the num:");
   scanf("%d", &n);
   for(int i=0;i<n;i++){
      scanf("%d", &arr[i]);
   for(int i=0;i<n;i++) {
      if(arr[i]%2==0){
         sum =sum+arr[i];
      }
      else{
         count=count+arr[i];
      }
   }
   printf("total odd:%d total even:%d=%d",count,sum,count-sum);
}
```