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//1.Find the maximum and minimum number in the array
#include<stdio.h>
int main(){
 int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
       min(arr,n);
       max(arr,n);
}
void min(int* arr,int n){
int i;
int min= arr[0];
for(i=1;i<n;i++){
       if(arr[i]<min){
               min=arr[i];
       }
       }
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printf("Minimum number:%d",min);
}
void max(int* arr,int n){
       int i;
       int max=arr[0];
       for(i=1;i<n;i++){
              if(arr[i]>max){
                      max=arr[i];
              }
       }
              printf("\nMaximum number:%d",max);
       }
2. Search the given number in array.
#include<stdio.h>
void main(){
        int i,n,ele;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
printf("Enter the element you want to search:");
       scanf("%d",&ele);
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search(arr,ele,ele);
}
void search(int* arr,int ele,int n)
{
  int j;
       for(j=0;j<n;j++){
               if(arr[j]==ele){
                       printf("Number %d is at index:%d",ele,j);
               }
       }
       }
3. Find sum of all numbers.
#include<stdio.h>
void main(){
        int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
       sum_numbers(arr,n);
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}
void sum_numbers(int* arr,int n){
               int i,sum=0;
              for(i=0;i<n;i++){
               sum=sum+arr[i];
       }
       printf("Sum of all numbers in a array: %d",sum);
}
//Q4.Find odd and even among all the numbers
#include<stdio.h>
int main(){
int i,n;
    printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
        even(arr,n);
        odd(arr,n)
}
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void even(int* arr,int n){
   int i;
printf("Even:");
       for(i=0;i<=n;i++){
               if(arr[i]%2==0){
                       printf(" %d",arr[i]);
               }
       }
}
void odd(int* arr,int n){
               int k;
                       printf("\nOdd:");
               for(k=0;k<=n;k++){
                       if(arr[k]%2!=0){
                               printf(" %d",arr[k]);
                       }
               }
}
```

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5. Print alternate elements in array.
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#include<stdio.h>
int main(){
int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
        alternate(arr,n);
}
void alternate(int* arr,int n){
                int i;
        for(i=0;i< n;i=i+2){
               printf(" %d",arr[i]);
        }
}
```

```
#include<stdio.h>
void main(){
int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
       prime(arr,n);
}
void prime(int* arr,int n){
       int i,j;
       int flag=0;
       for(i=0;i<n;i++){
               flag =1;
               for(j=2;j<arr[i];j++){
                               if(arr[i]%j==0)
                       {
                                flag = 0;
                        break;
                        }
               }
```

```
if(flag==1){
               printf(" %d",arr[i]);
       }
       }
}
//7. Take two array and add sum in third array
//Examplearr[5]= {1,2, 3, 4,5}
//brr[5]={10,20,30, 40, 50}
//crr[5]={11,22,33,44,55}
#include<stdio.h>
void main(){
       int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  int* brr = (int*)malloc(sizeof(int)*n);
  printf("Enter the numbers for first array:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
        printf("Enter the numbers for second arrray:");
  for(i=0;i<n;i++){
```

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scanf(" %d",&brr[i]);
        }
sum(arr,brr,n);
}
void sum(int* arr, int* brr,int n){
        int sumarr[5];
        int i ,j;
        for(i=0;i<n;i++){
                       sumarr[i]=arr[i]+brr[i];
               }
               printf("Sum of two arrays:");
               for(j=0;j< n;j++)\{
                       printf(" %d",sumarr[j]);
               }
}
```

```
//8. Merge two arrays.
#include<stdio.h>
void main(){
        int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
  int* brr = (int*)malloc(sizeof(int)*n);
   printf("Enter the numbers for first array:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
       }
        printf("Enter the numbers for second arrray:");
  for(i=0;i< n;i++){
       scanf(" %d",&brr[i]);
       merge(arr,brr,n);
}
void merge(int* arr,int* brr,int n){
       int i,j,k;
       int crr[6];
        printf("crr[6]={");
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for(i=0;i<3;i++){
               crr[i]= arr[i];
        }
        for(j=0;j<3;j++){
               crr[j+3]=brr[j];
        }
       for(k=0;k<6;k++){
               printf("%d",crr[k]);
}
        printf("}");
}
//9. Reverse the given array.
#include<stdio.h>
void main(){
        int i,n;
    printf("Enter the number of elements:");
  scanf("%d",&n);
```

```
int* arr = (int*)malloc(sizeof(int)*n);

printf("Enter the numbers:");

for(i=0;i<n;i++){
        scanf(" %d",&arr[i]);
    }

    rev(arr,n);
}

void rev(int* arr,int n){
        int i;
        for(i=n-1;i>-1;i--){
            printf("%d",arr[i]);
        }
}
```

```
10. Sort the array.
#include<stdio.h>
void main(){
        int i,n;
  printf("Enter the number of elements:");
  scanf("%d",&n);
  int* arr = (int*)malloc(sizeof(int)*n);
   printf("Enter the numbers:");
  for(i=0;i<n;i++){
       scanf(" %d",&arr[i]);
        }
       sort(arr,n);
}
void sort(int* arr,int n){
        int i,j;
       for(i=0;i<n;i++){
               for(j=0;j< n-i-1;j++){
                       if(arr[j]>arr[j+1]){
                                       int temp =arr[j];
                               arr[j]=arr[j+1];
                               arr[j+1]=temp;
                       }
               }
        }
        for(i=0;i<n;i++){
       printf(" %d",arr[i]);
        }
}
```