```
1 #include <stdio.h>
  2 int main ()
         int n = 0, i = 0, largest1 = 0, largest2 = 0, temp = 0;
          printf ("Enter the size of the array\n");
          int array[n];
          printf ("Enter the elements\n");
             scanf ("%d", &array[i]);
          printf ("The array elements are : \n");
          for (i = 0; i < n; i++)
             printf ("%d\t", array[i]);
          printf ("\n");
          largest1 = array[0];
          largest2 = array[1];
          if (largest1 < largest2)
             temp = largest1;
             largest1 = largest2;
             largest2 = temp;
              if (array[i] > largest1)
                 largest2 = largest1;
                 largest1 = array[i];
             else if (array[i] > largest2 && array[i] != largest1)
                 largest2 = array[i];
         printf ("The FIRST LARGEST = %d\n", largest1);
         printf ("THE SECOND LARGEST = %d\n", largest2);
          return 0;
PROBLEMS CLITTLE DEBUG CONSOLE TERMINAL
```

Enter the elements The array elements are : 2 4 5 8 The PIRST LARGEST - 8 THE SECOND LARGEST - 7
PS C:\Users\lakshmanan\AppData\Local\Temp> () Com + - (1) (8 ··· ×

```
1 #include (stdio.h)
         void main ()
             int number[30];
             int i, j, a, n, counter, average;
             printf("Enter the value of N\n");
             scanf("%d", &n);
             printf("Enter the numbers \n");
             scanf("%d", &number[i]);
                 for (j = i + 1; j < n; ++j)
                     if (number[i] < number[j])</pre>
                         a = number[i];
                         number[i] = number[j];
                         number[j] = a;
             printf("The numbers arranged in descending order are given below \n");
                 printf("%d\n", number[i]);
             printf("The 2nd largest number is = %d\n", number[1]);
             printf("The 2nd smallest number is = %d\n", number[n - 2]);
             average = (number[1] + number[n - 2]) / 2;
             counter = 0;
             for (i = 0; i < n; ++i)
                 if (average == number[i])
                     ++counter;
             if (counter == 0 )
                 printf("The average of %d and %d is = %d is not in the array \n",
PROBLEMS CUTTUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                   () Codo + - (1) (8 ··· ×
```

The numbers arranged in descending order are given below

The 2nd largest number is - 4
The 2nd smallest number is - 2
The average of 4 and 2 in array is 1 in numbers
PS C:\Users\lambannan\AppData\Local\Temps []

```
int maximum_difference(int array[], int arr_size)
        int max_diff = array[1] - array[0];
        int i, j;
             for (j = i + 1; j < arr_size; j++)
                 if (array[j] - array[i] > max_diff)
    max_diff = array[j] - array[i];
         return max_diff;
16 int main()
         int array[] = {10, 15, 90, 200, 110};
        printf("Maximum difference is %d", maximum_difference(array, 5));
        getchar();
```

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27 C:\Temporalitaternam ispecialitation-l\ppptata\Local\Temp od "C:\Temporalitation-l\ppptata\Local\Temp" , if (07) { god temporalitation-file } , if (07) { .\temporalitation-file }

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() Com + - ([] (1) ··· X

```
C #include <stdio.h> Untitled-1 • C #include <stdio.h> Untitled-3 • C #include <stdio.h> Untitled-3 • C #include <stdio.h> Untitled-5 • C #inc
                                     #include <stdio.h>
                                    int main()
                                                               int Arr[5] = {12, 56, 34, 78, 100};
                                                               int largest = Arr[0];
                                                               for (int i = 1; i < 5; i++)
                                                                                         if (Arr[i] > largest)
                                                                                                                 largest = Arr[i];
            10
            11
            12
                                                               printf("The largest element in the array is: %d\n", largest);
            13
            14
                                                               return 0;
            15
            16
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\lakshmanan\AppData\Local\Temp> cd "C:\Users\LAKSHM~1\AppData\Local\Temp\"; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile }; if ($?) { .\tempCodeRunnerFile }

The largest element in the array is: 100
PS C:\Users\lakshmanan\AppData\Local\Temp>
```

```
2 #include <comio.h>
 3 int main ()
         int arr[20], i, j, k, size;
         printf (" Define the number of elements in an array: ");
         scanf (" %d", &size);
         printf (" \n Enter %d elements of an array: \n ", size);
         for ( i = 0; i < size; i++)
             scanf (" %d", &arr[i]);
         for ( i = 0; i < size; i ++)
             for (j = i + 1; j < size; j++)
                 if ( arr[i] == arr[j])
                     for ( k = j; k < size - 1; k++)
                         arr[k] = arr[k+1];
        printf (" \n Array elements after deletion of the duplicate elements: ");
         for ( i = 0; i < size; i++)
            printf (" %d \t", arr[i]);
         return 0;
                                                                                                                                                                                                                                                () Com + - (1) (8 ··· ×
Enter 8 elements of an assays
```

Array elements after deletion of the duplicate elements: 1 2 4 5 7 PS C:\Users\lakabmanam\AppDats\Local\Temps

```
1 #include (stdio.h)
      void main()
          long int ARR[10], OAR[10], EAR[10];
          printf("Enter the size of array");
          scanf("%d", &n);
          printf("Enter the elements of the array");
              scanf("%ld", &ARR[i]);
              fflush(stdin);
          /* Copy odd and even elements into their respective arrays */
          for (i = 0; i < n; i++)
              if (ARR[i] % 2 == 0)
                  EAR[j] = ARR[i];
                  OAR[k] = ARR[i];
          printf("The elements of OAR are ");
          for (i = 0; i < k; i++)
              printf("%ld ", OAR[i]);
          printf("\nThe elements of EAR are ");
           for (i = 0; i < j; i++)
              printf("%ld ", EAR[i]);
```

() Com + - (1) 18 ··· ×

```
1 #include (stdio.h)
  2 void main()
         int arr1[100], fr[100];
         int n, i, j, ctr;
         printf("\n\nCount frequency of each element of an array:\n");
         printf("----\n");
         printf("Input the number of elements to be stored in the array :");
         scanf("%d",&n);
         printf("Input %d elements in the array :\n",n);
         for(i=0;i<n;i++)
            printf("element - %d : ",i);
            scanf("%d",&arr1[i]);
            fr[i] - -1;
         for(i=0; i<n; i++)
            for(j=i+1; j<n; j++)
                if(arr1[i]==arr1[j])
                    fr[j] = 0;
           if(fr[i]!=0)
                fr[i] = ctr;
         printf("\nThe frequency of all elements of array : \n");
         for(i=0; i<n; i++)
            if(fr[i]!=0)
PROBLEMS CUTIFUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                               Count frequency of each element of an array:
```

Imput the humber of elements to be stored in the array :? Imput ? elements in the array : element = 0 : 5 element = 1 : 2 element = 2 : 7 element = 3 : 7 element = 4 : 5 element = 4 : 5

5 occurs 3 times 2 occurs 2 times 7 occurs 2 times PS C:\Users\lakshr

```
D Ⅲ ...
           1 #include <stdio.h>
                               void main ()
                                            int number[30];
                                            int i, j, a, n;
                                            printf("Enter the value of N\n");
                                            scanf("%d", &n);
                                            printf("Enter the numbers \n");
                                            for (i = 0; i < n; ++i)
                                            scanf("%d", &number[i]);
                                            /* sorting begins ... */
                                            for (i = 0; i < n; ++i)
                                                         for (j = i + 1; j < n; ++j)
                                                                    if (number[i] < number[j])</pre>
                                                                                 a = number[i];
                                                                                number[i] = number[j];
                                                                                number[j] = a;
                                            printf("The numbers arranged in descending order are given below\n");
                                            for (i = 0; i < n; ++i)
                                                         printf("%d\n", number[i]);
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        D Code + - □ 1 -- ×
 P3 C:\Users\lakshmanan> cd "C:\Users\lakshmanan> cd "C:\Users\lakshmanan> cd "C:\Users\lakshmanan> cd "C:\Users\lakshmanan\AppOnta\Local\Temp" p3 C:\Users\lakshmanan\AppOnta\Local\Temp> cd "C:\Users\lakshmanan\AppOnta\Local\Temp> cd "C:\Users
 Enter the numbers
 The numbers arranged in descending order are given below 780 234
```

PS C:\Users\lakshmanan\AppData\Local\Temp>

```
1 #include <stdio.h>
2 int main()
      printf("Enter size of the array: ");
      scanf("%d",&size);
      printf("Enter Array Elements: ");
       for(int i=0;i<size;i++)
       scanf("%d",&arr[i]);
      printf("Entered Array is: ");
       for(int i=0;i<size;i++)
      printf("%d ",arr[i]);
       int start=0,end=size-1;
       while(startkend)
          int temp=arr[start];
          arr[start]=arr[end];
          arr[end]=temp;
          end--;
      printf("%d ",arr[i]);
       return 0;
```

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PS C:\Teac

[] Cods +- [] **1** ⋅⋅⋅ ×

```
b.h> Untitled-2 • C #include <stdio.h> Untitled-3 • C #include <stdio.h> Untitled-3 • C #include <stdio.h> Untitled-7 • C sum_of_digits.c × 🕨 🗓 ···
 C: > Users > lakshmanan > programming in c > C sum_of_digits.c
        #include <stdio.h>
        int main()
             int a,b,c,d,e,f,g,h,i,sum;
             printf("\n enter the number");
             scanf("%d",&a);
             b=a/10;//1234
     7
             c=a%10;//5
             d=b/10;//123
             e=b%10;//4
    10
             f=d/10;//12
    11
   12
             g=d%10;//3
   13
             h=f/10;//1
             i=f%10;//2
    14
   15
             sum=h+i+g+e+c;
             printf("\nthe sum of digits=%d",sum);
   16
   17
             return 0;
   18
                                                                                                                                  ∑ Code + ~ □ · · · ×
                                 > cd "c:\Users\lakshmanan\programming in c\"; if ($?) { gcc sum of digits.c -o sum of digits }; if ($?) { .\sum of digits }
  enter the number1234
 the sum of digits=10
 PS C:\Users\lakshmanan\programming in c>
```