

```
C Q1.c > 分 main()
     void main()
          for(int i=0;i<n;i++)
              if(arr[i]>arr[i+1])
         printf("\n THE MAXIMUM ELEMENT INDEX NUMBER IS %d", maxi);
          int flag=1;
         while(ll<ul)//BINARY SEARCH HAS TIME COMPLEXITY OF O(log(ns))
28 |
              mid=(11+u1)/2;
              if(mid==maxi)
                  flag=0;
                  break;
              if(mid>maxi)
                  ul=mid-1;
              if(mid<maxi)</pre>
                  11=mid-1;
          if(flag==0)
              printf("\n THE MAXIMUM ELEMENT HAS BEEN FOUND AT %d ",maxi);
              printf("\n THE MAXIMUM ELEMENT IS %d",arr[maxi]);
```

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C Q1.c > 分 main()
                                                                                                                    PS C:\Users\sriva\OneDrive\Desktop\DS Lab> cd "c:\Users\
                                                                                                                    sriva\OneDrive\Desktop\DS Lab\" ; if ($?) { gcc Q1.c -o
      void main()
                                                                                                                    Q1 }; if ($?) { .\Q1 }
          for(int i=0;i<n;i++)
                                                                                                                     ENTER THE NUMBER OF ELEMENTS IN THE BITONIC ARRAY 6
              if(arr[i]>arr[i+1])
                                                                                                                     ENTER THE 6 ELEMENTS OF THE ARRAY
          printf("\n THE MAXIMUM ELEMENT INDEX NUMBER IS %d", maxi);
                                                                                                                     4
          int flag=1;
          while(ll<ul)//BINARY SEARCH HAS TIME COMPLEXITY OF O(log(ns))
28
                                                                                                                     6
              mid=(11+u1)/2;
              if(mid==maxi)
                                                                                                                      THE MAXIMUM ELEMENT INDEX NUMBER IS 3
                                                                                                                     THE MAXIMUM ELEMENT HAS BEEN FOUND AT 3.
                  flag=0;
                                                                                                                      THE MAXIMUM ELEMENT IS 8
                  break;
                                                                                                                    PS C:\Users\sriva\OneDrive\Desktop\DS Lab>
              if(mid>maxi)
                  ul=mid-1;
              if(mid<maxi)
                  ll=mid-1;
          if(flag==0)
              printf("\n THE MAXIMUM ELEMENT HAS BEEN FOUND AT %d ",maxi);
              printf("\n THE MAXIMUM ELEMENT IS %d",arr[maxi]);
```

💠 You, 1 second ago Ln 28, Col 64 Spaces: 4 UTF-8 CRLF {} C 🚳 Go Live 🚱 Win32 Colorize: 0 variables 🔗 Colorize 🔓 Background 🔗 Prettier 🚨

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```
C Q2.c > 分 main()
      You, 7 minutes ago | 1 author (You)
      #include<stdio.h>
      void main()
          printf("ENTER THE NUMBER OF ELEMENTS IN THE ARRAY \n");
          scanf("%d",&n);
          printf("ENTER THE %d ELEMENTS OF THE ARRAY \n",n);
          int arr[n],count=0;
          for(int i=0;i<n;i++)</pre>
              scanf("%d",&arr[i]);
          for(int i=0;i<n;i++)
              for(int j=i+1; j<n; j++)
                  if(arr[i]>arr[j] && i<j)
                       count++;
          printf("THE NUMBER OF PERMUTATIONS ARE %d ",count);
```

```
C Q2.c > 分 main()
     You, 7 minutes ago | 1 author (You)
     #include<stdio.h>
     void main()
         int n;
        printf("ENTER THE NUMBER OF ELEMENTS IN THE ARRAY \n");
        scanf("%d",&n);
        printf("ENTER THE %d ELEMENTS OF THE ARRAY \n",n);
         int arr[n],count=0;
         for(int i=0;i<n;i++)
            scanf("%d",&arr[i]);
         for(int i=0;i<n;i++)</pre>
            for(int j=i+1;j<n;j++)</pre>
               if(arr[i]>arr[j] && i<j)
                   count++;
```

```
PS C:\Users\sriva\OneDrive\Desktop\DS Lab> cd "c:\Users\
sriva\OneDrive\Desktop\DS Lab\" ; if ($?) { gcc Q2.c -o
Q2 }; if ($?) { .\Q2 }
ENTER THE NUMBER OF ELEMENTS IN THE ARRAY
ENTER THE 4 ELEMENTS OF THE ARRAY
THE NUMBER OF PERMUTATIONS ARE 4
PS C:\Users\sriva\OneDrive\Desktop\DS Lab>
```

▷ ∨ ② ↔ ○ → ⑤ Ⅲ … ✓ Welcome X C Q1.c M C Q3.c COMMIT\_EDITMSG C Q2.c × © Q3.c ≥ 57 student You, 8 minutes ago | 1 author (You) #include<stdio.h> You, 8 minutes ago | 1 author (You) struct student int roll; float marks; char str[100]; void main() printf("ENTER THE NUMBER OF STUDENTS "); int n: scanf("%d",&n); struct student aih[n]; for(int i=0;i<n;i++)</pre> printf("\n Enter the student roll no \n"); scanf("%d",&aih[i].roll); printf("\n Enter the student marks \n"); scanf("%f", &aih[i].marks); printf("\n Enter the student name \n"); scanf("%s", &aih[i].str); printf("\n STUDENT INFORMATION"); for(int i=0;i<n;i++)</pre> printf("\n roll no %d\n",aih[i].roll); printf("\n marks %f\n",aih[i].marks); printf("\n name %s\n",aih[i].str);

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🔖 You, 8 minutes ago Ln 2, Col 1 Spaces: 4 UTF-8 CRLF {} C 📦 Go Live 🚱 Win32 Colorize: 0 variables 🕢 Colorize 🔛 Background 🕢 Prettier 🚨

