

QUE1

```
#include <stdio.h>

int main()
{
    int arr[100], freq[100];
    int size, i, j, count;

    printf("Enter size of array: ");
    scanf("%d", &size);

    printf("Enter elements in array: ");
    for (i = 0; i < size; i++)
    {
        scanf("%d", &arr[i]);
        freq[i] = -1;
    }

    for (i = 0; i < size; i++)
    {
        count = 1;
        for (j = i + 1; j < size; j++)
        {
            if (arr[i] == arr[j])
            {
                count++;

                freq[j] = 0;
            }
        }

        if (freq[i] != 0)
        {
            freq[i] = count;
        }
    }

    printf("\nFrequency of all elements of array : \n");
    for (i = 0; i < size; i++)
    {
        if (freq[i] != 0)
        {
            printf("%d occurs %d times\n", arr[i], freq[i]);
        }
    }
}
```

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    }
}

return 0;
}

```

OUTPUT

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C:\Users\hp\Documents\DAA LAB>cd "c:\Users\hp\Documents\DAA LAB\LAB-1\" && gcc que1.c -o que1 && "c:\Users\hp\Documents\DAA LAB\LAB-1\"c
ue1
Enter size of array: 5
Enter elements in array: 1 2 3 3 3

Frequency of all elements of array :
1 occurs 1 times
2 occurs 1 times
3 occurs 3 times

c:\Users\hp\Documents\DAA LAB\LAB-1>

```

QUE2

```

#include<stdio.h>

int main()
{

    int size,i,j;

    printf("Enter size of array: ");
    scanf("%d", &size);
    int arr[size];

    printf("Enter elements in array: ");
    for (i = 0; i < size; i++)
    {
        scanf("%d", &arr[i]);
    }

    int key;
    int found = 0;
    printf("Enter the key value : ");
    scanf("%d", &key);

    for (i = 0; i < size; i++){
        for (j = i+1; j < size; j++){

            if ((arr[i]*arr[i]) + (arr[j]*arr[j])==key)

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        {
            printf("i=%d and j=%d",arr[i],arr[j]);
            found=1;
            break;
        }
    }
}

if(found==0){
    printf("Not found");
}
return 0;
}

```

OUTPUT

```

c:\Users\hp\Documents\DAA LAB\LAB-1>cd "c:\Users\hp\Documents\DAA LAB\LAB-1\" && gcc que2.c -o que2 && "c:\Users\hp\Documents\DAA LAB\LAB-1\que2
Enter size of array: 5
Enter elements in array: 1 2 2 4 6
Enter the key value : 8
i=2 and j=2
c:\Users\hp\Documents\DAA LAB\LAB-1>

```

QUE3

```

#include <stdio.h>

int main()
{
    printf("Enter the number of values in array \n");
    int n;
    scanf("%d", &n);

    int arr[n];

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

    for (int i = 0; i < n-1; i++)
    {
        if(arr[i]>arr[i+1]){
            printf("k=%d ", arr[i]);
            break;
        }
    }
}

```

```
    return (0);  
}
```

OUTPUT

```
C:\Users\hp\Documents\DAA LAB>cd "c:\Users\hp\Documents\DAA LAB\LAB-1" && gcc que3.c -o que3 && "c:\Users\hp\Documents\DAA LAB\LAB-1\que3  
Enter the number of values in array  
5  
1 7 3 2 1  
k=7  
c:\Users\hp\Documents\DAA LAB\LAB-1>
```

QUE 4

```
#include <stdio.h>  
  
int main()  
{  
  
    printf("Enter the number of values in array \n");  
    int n;  
    scanf("%d", &n);  
  
    int arr[n];  
  
    for (int i = 0; i < n; i++)  
    {  
        scanf("%d", &arr[i]);  
    }  
  
    int pro = 1;  
  
    for (int i = 0; i < n; i++)  
    {  
        pro = pro * arr[i];  
    }  
  
    for (int i = 0; i < n; i++)  
    {  
        arr[i] = pro / arr[i];  
        printf("%d ", arr[i]);  
    }  
  
    return (0);  
}
```

OUTPUT

```
c:\Users\hp\Documents\DAA LAB\LAB-1>cd "c:\Users\hp\Documents\DAA LAB\LAB-1\" && gcc que4.c -o que4 && "c:\Users\hp\Documents\DAA LAB\LAB-1\"que4
Enter the number of values in array
5
10 4 1 6 2
48 120 480 80 240
c:\Users\hp\Documents\DAA LAB\LAB-1>
```