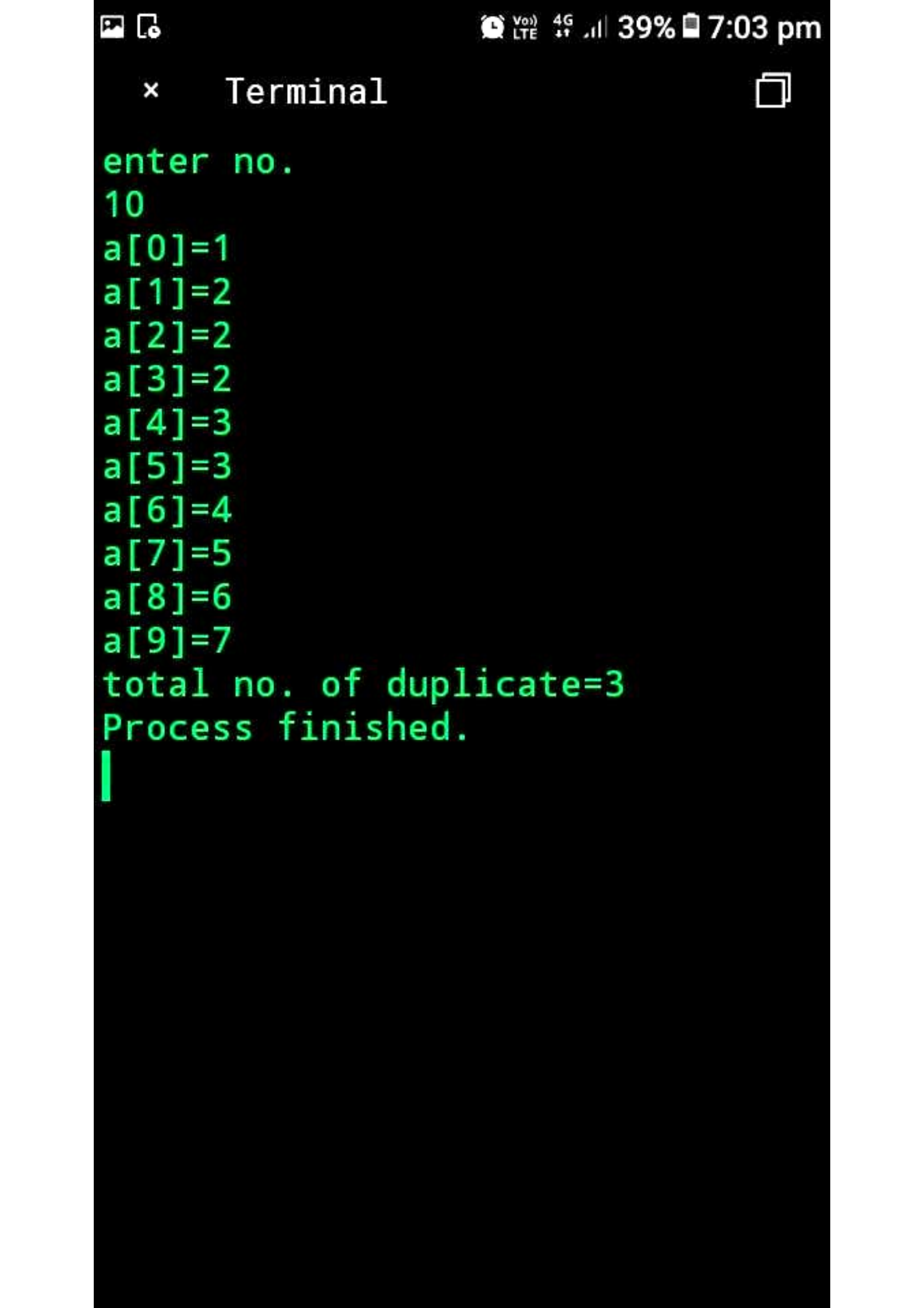
39% 7:03 pm

no. of duplicate.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans1 */
int main()
{
  int n,a[20],i,j,dup=0;
  //input no. of elements
  printf("enter no.\n");
  scanf("%d",&n);
  //input elements
  for(i=0;i<n;i++){
    printf("a[%d]=",i);
    scanf("%d",&a[i]);
  }
  //duplicate
  for(i=0;i<n;i++){
    for(j=i+1;j<n;j++)
      if(a[i]==a[j]){
      dup++;
      break;
    }
  }
  printf("total no. of duplicate=%d",dup);
  return 0;
}
```

Try Dcoder's keyboard

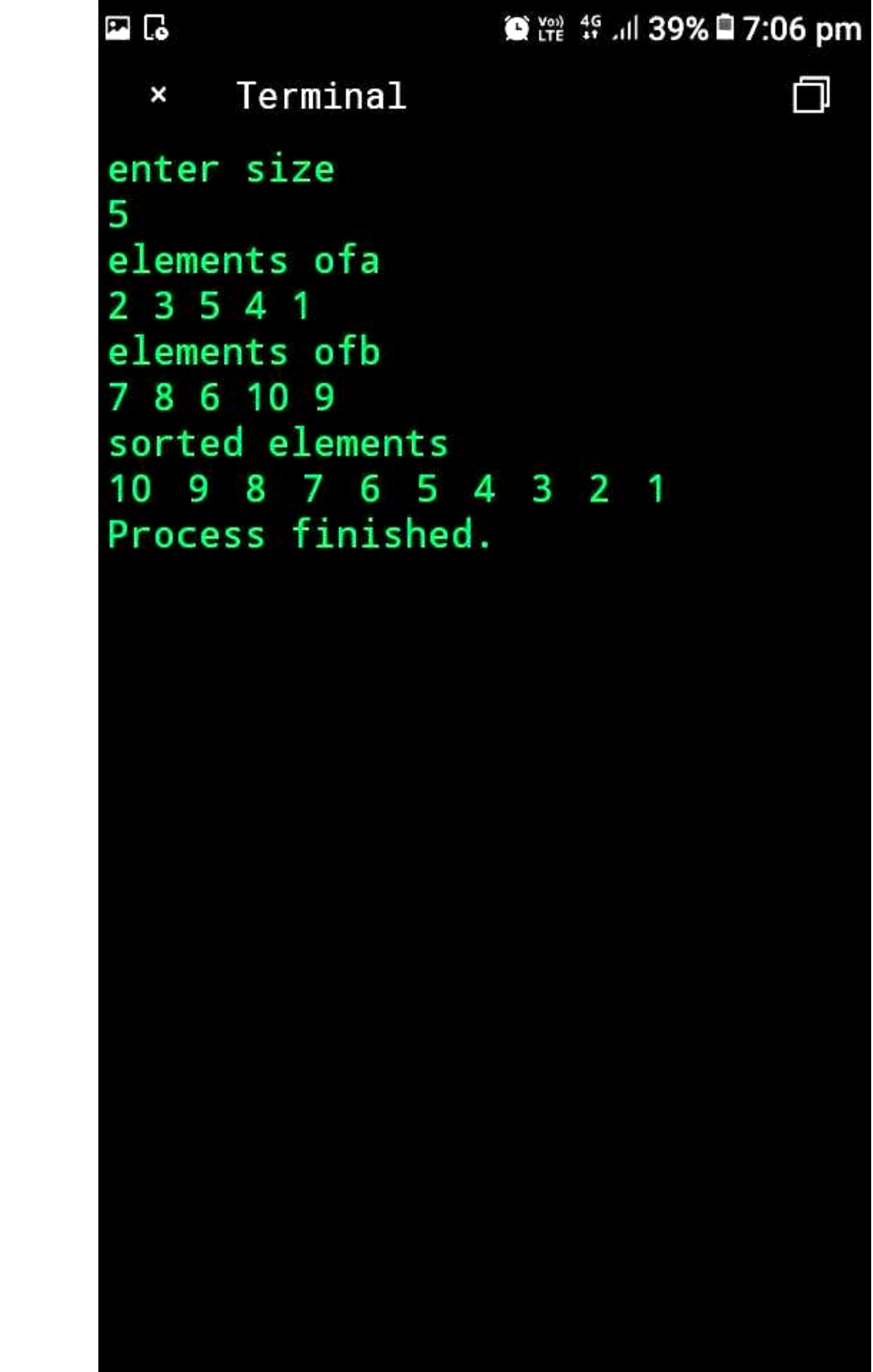

39% 7:03 pm
Terminal
enter no.
10
a[0]=1
a[1]=2
a[2]=2
a[3]=2
a[4]=3
a[5]=3
a[6]=4
a[7]=5
a[8]=6
a[9]=7
total no. of duplicate=3
Process finished.

39% 7:05 pm
rray.c merge s
Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans2 */
int main()
{
   int a[30],b[30],c[30],i,j,n,temp,sort;
   //input no. of elements
   printf("enter size\n");
   scanf("%d",&n);
   //input elements of a
   printf("elements ofa\n");
   for(i=0;i<n;i++){
      scanf("%d",&a[i]);
   }
   //input elements of b
   printf("elements ofb\n");
   for(i=0;i<n;i++){
      scanf("%d",&b[i]);
   }
   //merging
   for(i=0;i<n;i++){
      c[i]=a[i];
   }
   for(j=0;j<n;j++){
      c[i]=b[j];
      i++;
   }
```

```
28    //sorting
29    for(i=0;i<2*n-1 && sort==0;i++){
30       sort=1;
31       for(j=0;j<(2*n-i)-1;j++){
32          if(c[j]<c[j+1]){
33             temp=c[j];
34             c[j]=c[j+1];
35             c[j+1]=temp;
36             sort=0;
37          }
38       }
39    }
40
41    printf("sorted elements\n");
42    for(i=0;i<2*n;i++)
43       printf("%2d\t",c[i]);
44    return 0;
45 }
```

Try Dcoder's keyboard


39% 7:06 pm
Terminal
enter size
5
elements ofa
2 3 5 4 1
elements ofb
7 8 6 10 9
sorted elements
10 9 8 7 6 5 4 3 2 1
Process finished.

38% 7:07 pm

frequency of element

Saved

```c
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans3 */
int main()
{
  int a[30],i,j,n,cnt,d[30];
  //input no. of elements
  printf("enter size\n");
  scanf("%d",&n);

  //input elements
  printf("enter elements\n");
  for(i=0;i<n;i++){
    printf("a[%d]=",i);
    scanf("%d",&a[i]);
    d[i]=1;
  }

  //frequency
  for(i=0;i<n;i++){
    cnt=1;
    for(j=i+1;j<n;j++){
      if(a[i]==a[j]){
        cnt++;
        d[j]=0;
      }
    }
    if(d[i]!=0)
      d[i]=cnt;
  }
  for(i=0;i<n;i++){
    if(d[i]!=0)
      printf("freq. of %d=%d\n",a[i],d[i]);
  }
```

Try Dcoder's keyboard

35% 7:27 pm

Terminal

```
enter size
10
enter elements
a[0]=1
a[1]=2
a[2]=2
a[3]=2
a[4]=3
a[5]=3
a[6]=4
a[7]=5
a[8]=6
a[9]=6
freq. of 1=1
freq. of 2=3
freq. of 3=2
freq. of 4=1
freq. of 5=1
freq. of 6=2

Process finished.
```

35% 7:27 pm

seprate odd

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans4 */
int main()
{
  int i,j,x,y,n,even,odd;
  int a[30],e[30],o[30];
  //input no. of elements
  printf("enter size\n");
  scanf("%d",&n);
  //input elements
  printf("enter elements\n");
  for(i=0;i<n;i++){
    scanf("%d",&a[i]);
  }
  even=0,odd=0;
  for(i=0;i<n;i++){
    //form even array
    if(a[i]%2==0){
      x=even;
      even++;
      for(j=x;j<even;j++)
        e[j]=a[i];
    }
    //form odd array
    else{
      y=odd;
      odd++;
      for(j=y;j<odd;j++)
        o[j]=a[i];
    }
  }
```

```
33    //even array
34    printf("even array\n");
35    for(i=0;i<even;i++){
36      printf("%2d\t",e[i]);
37    }
38    printf("\n");
39    //odd array
40    printf("odd array\n");
41    for(i=0;i<odd;i++){
42      printf("%2d\t",o[i]);
43    }
44    return 0;
45 }
```

Try Dcoder's keyboard


35% 7:29 pm
Terminal
enter size
10
enter elements
1 2 3 4 5 6 7 8 9 10
even array
2 4 6 8 10
odd array
1 3 5 7 9
Process finished.

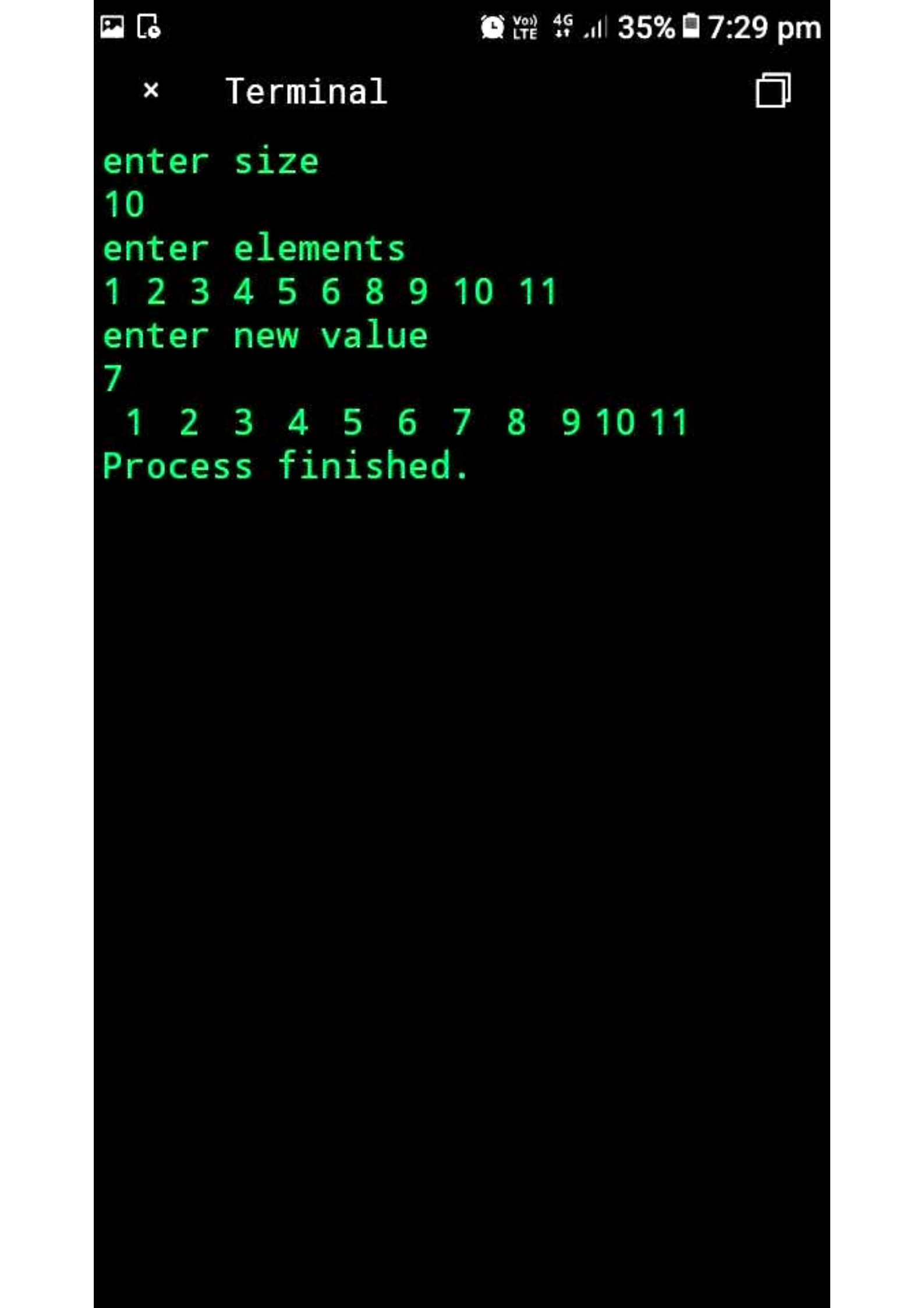
35% 7:29 pm

insert element.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans5 */
int main()
{
  int a[30],i,j,n,e,temp,sort;
  //input no. of elements
  printf("enter size\n");
  scanf("%d",&n);
  //input elements
  printf("enter elements\n");
  for(i=0;i<n;i++){
    scanf("%d",&a[i]);
  }
  //input new value
  printf("enter new value\n");
  scanf("%d",&e);
  a[n]=e;
  for(i=0;i<n && sort==0;i++){
    sort=1;
    for(j=0;j<(n-i);j++){
      if(a[j]>a[j+1]){
        temp=a[j];
        a[j]=a[j+1];
        a[j+1]=temp;
        sort=0;
      }
    }
  }
  for(i=0;i<n+1;i++){
    printf("%2d\t",a[i]);
  }
  return 0;
```

Try Dcoder's keyboard


35% 7:29 pm
Terminal
enter size
10
enter elements
1 2 3 4 5 6 8 9 10 11
enter new value
7
1 2 3 4 5 6 7 8 9 10 11
Process finished.

35% 7:29 pm

matrix addition.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011      ans6 */
int main()
{
   int r,c,i,j;
   int a[10][10],b[10][10],sum[10][10];

   //input no. of row column
   printf("enter row and column\n");
   scanf("%d %d",&r,&c);
   //input matrix1
   printf("enter matrix 1\n");
   for(i=0;i<r;i++){
      for(j=0;j<c;j++){
         printf("a%d%d=",i+1,j+1);
         scanf("%d",&a[i][j]);
      }
   }
   //input matrix2
   printf("enter matrix 2\n");
   for(i=0;i<r;i++){
      for(j=0;j<c;j++){
         printf("b%d%d=",i+1,j+1);
         scanf("%d",&b[i][j]);
      }
   }
```

```c
    //print matrix1
    printf("matrix 1\n");
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        printf("%2d\t",a[i][j]);
      }
      printf("\n");
    }
    //print matrix2
    printf("matrix 2\n");
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        printf("%2d\t",b[i][j]);
      }
      printf("\n");
    }
    //addition
    printf("addition possible\n");
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        sum[i][j]=a[i][j]+b[i][j];
        printf("%2d\t",sum[i][j]);
        }
      printf("\n");
    }

    return 0;
}
```

Try Dcoder's keyboard

34% 7:30 pm

Terminal

```
enter row and column
3 3
enter matrix 1
a11=1
a12=2
a13=3
a21=4
a22=5
a23=6
a31=7
a32=8
a33=9
enter matrix 2
b11=1
b12=2
b13=3
b21=4
b22=5
b23=6
b31=7
b32=8
b33=9
```

```
matrix 1
 1  2  3
 4  5  6
 7  8  9
matrix 2
 1  2  3
 4  5  6
 7  8  9
addition possible
 2  4  6
 8 10 12
14 16 18

Process finished.
```

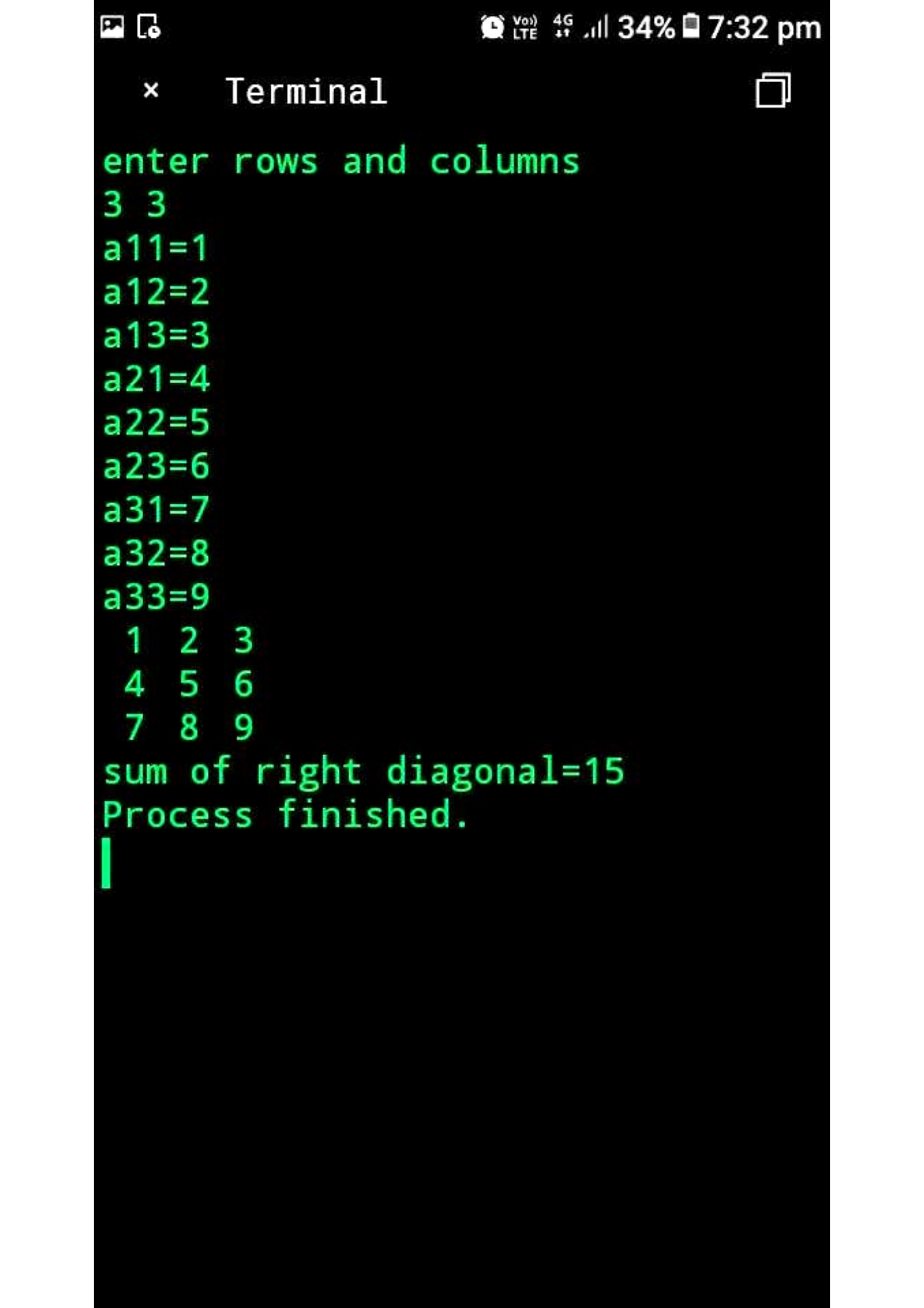
34% 7:31 pm

sum right diagonal.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans7 */
int main()
{
  int a[10][10],i,j,r,c,sum=0;
  //input no.of rows columns
  printf("enter rows and columns\n");
  scanf("%d %d",&r,&c);
  //input elements
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      printf("a%d%d=",i+1,j+1);
      scanf("%d",&a[i][j]);
    }
  }
  //print matrix
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      printf("%2d\t",a[i][j]);
    }
    printf("\n");
  }
  //addition of right diagonal elements
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      if(i==j)
        sum+=a[i][j];
    }
  }
  printf("sum of right diagonal=%d",sum);
  return 0;
}
```

Try Dcoder's keyboard


34% 7:32 pm
Terminal
enter rows and columns
3 3
a11=1
a12=2
a13=3
a21=4
a22=5
a23=6
a31=7
a32=8
a33=9
1 2 3
4 5 6
7 8 9
sum of right diagonal=15
Process finished.

34% 7:32 pm

lower triangular mat

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans8 */
int main()
{
  int a[10][10],i,j,r,c;
  //input no.of rows columns
  printf("enter rows and columns\n");
  scanf("%d %d",&r,&c);
  //input elements
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      printf("a%d%d=",i+1,j+1);
      scanf("%d",&a[i][j]);
    }
  }
  //print matrix
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      printf("%2d\t",a[i][j]);
    }
    printf("\n");
  }
  //lower triangular matrix
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      if(i>j)
        printf("%2d\t",a[i][j]);
      else
        printf(" \t");
    }
    printf("\n");
  }
```

Try Dcoder's keyboard


34% 7:33 pm
Terminal
enter rows and columns
3 3
a11=1
a12=2
a13=3
a21=4
a22=5
a23=6
a31=7
a32=8
a33=9
1 2 3
4 5 6
7 8 9
4
7 8
Process finished.

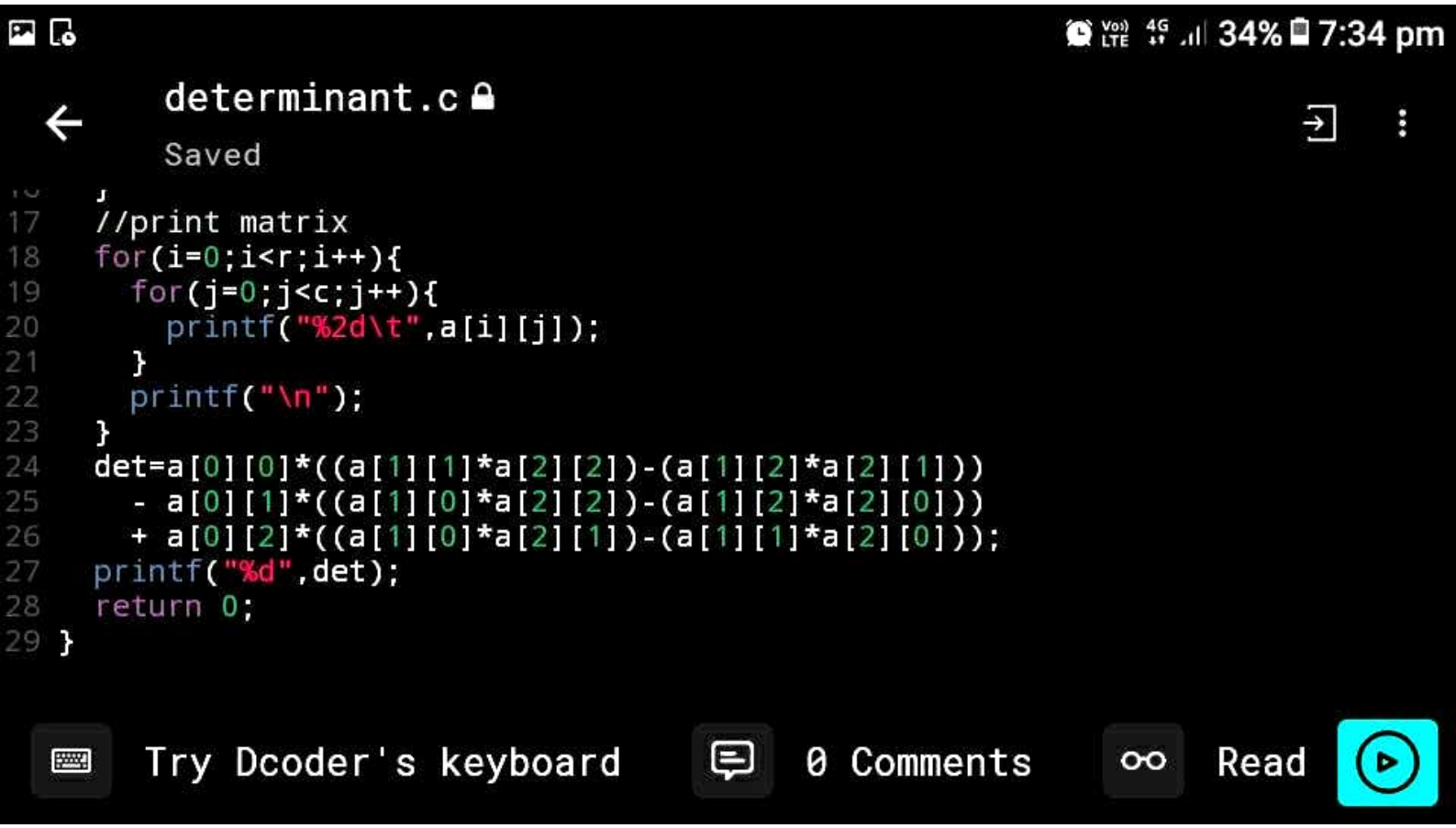
34% 7:34 pm

determinant.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans9 */
int main()
{
  int a[10][10],i,j,r,c,det;
  //input no.of rows columns
  printf("enter rows and columns\n");
  scanf("%d %d",&r,&c);
  //input elements
  for(i=0;i<r;i++){
    for(j=0;j<c;j++){
      printf("a%d%d=",i+1,j+1);
      scanf("%d",&a[i][j]);
```

Try Dcoder's keyboard 0 Comments Read


34% 7:34 pm
determinant.c
Saved
//print matrix
for(i=0;i<r;i++){
for(j=0;j<c;j++){
printf("%2d\t",a[i][j]);
}
printf("\n");
}
det=a[0][0]*((a[1][1]*a[2][2])-(a[1][2]*a[2][1]))
- a[0][1]*((a[1][0]*a[2][2])-(a[1][2]*a[2][0]))
+ a[0][2]*((a[1][0]*a[2][1])-(a[1][1]*a[2][0]));
printf("%d",det);
return 0;
}
Try Dcoder's keyboard
0 Comments
Read


34% 7:35 pm
Terminal
enter rows and columns
3 3
a11=1
a12=3
a13=2
a21=-3
a22=-1
a23=-3
a31=2
a32=3
a33=1
1 3 2
-3 -1 -3
2 3 1
-15
Process finished.

33% 7:36 pm

rotating array.c

Saved

```c
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans10 */
int main()
{
  int a[20],b[20],n,e,i;
  //input no.of elements
  printf("enter size\n");
  scanf("%d",&n);
  //input elements
  printf("enter elements\n");
  for(i=0;i<n;i++)
    scanf("%d",&a[i]);
  //print array
  printf("array\n");
  for(i=0;i<n;i++)
    printf("%2d\t",a[i]);
  //how much rotation
  printf("\nplaces by rotation\n");
  scanf("%d",&e);

  //rotation
  for(i=0;i<e;i++)
    b[i]=a[i];
  for(i=0;i<n;i++){
    if(e<n)
      a[i]=a[e];
    else
      a[i]=b[e-n];
    e++;
  }
  //rotated array
  for(i=0;i<n;i++)
    printf("%2d\t",a[i]);
```

Try Dcoder's keyboard


33% 7:36 pm
Terminal
enter size
9
enter elements
1 2 3 4 5 6 7 8 9
array
1 2 3 4 5 6 7 8 9
places by rotation
2
3 4 5 6 7 8 9 1 2
Process finished.

33% 7:36 pm

min distance.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans11 */
int main()
{
  int a[20],b[20],n,i,j,x,y,c,d=10;
  //input no.of elements
  printf("enter size\n");
  scanf("%d",&n);
  //input elements
  printf("enter elements\n");
  for(i=0;i<n;i++)
    scanf("%d",&a[i]);
  //print array
  printf("array\n");
  for(i=0;i<n;i++)
    printf("%2d\t",a[i]);
  //input elemnents btw to find distance
  printf("\nenter no.s to find dis. btw\n"
  scanf("%d %d",&x,&y);
  //distance
  for(i=0;i<n;i++){
    for(j=0;j<n;j++){
      if(a[j]==y && a[i]==x){
        c=abs(i-j);
      }
    }
    if(c<d){
      d=c;
    }
  }
  printf("%d",d);
  return 0;
```

Try Dcoder's keyboard


33% 7:37 pm
Terminal
enter size
8
enter elements
2 5 3 5 4 4 2 3
array
2 5 3 5 4 4 2 3
enter no.s to find dis. btw
2 3
1
Process finished.