DS lab

Set Data Structure and set operations (Union, Intersection and Difference) using Bit String ?

```
#include<stdio.h>
void main()
{


int i,ch,n1,n2,set1[10],set2[10],set4[20], set3[20];
char wish;

do
{
printf("press 1 for union");
printf("\npress 2 for intersection");
printf("\npress 3 for difference");
printf("\n enter ur choice");
scanf("%d",&ch);
switch(ch)
{
   case 1:
printf("\nenter the size of set1\n");
scanf("%d",&n1);
printf("enter the element of set1\n");
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);
printf("enter the size of set2\n");
```

```
scanf("%d",&n2);
printf("enter the elements of set2\n");
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);

if(n1==n2)
{
   for(i=0;i<n2;i++)
   {


   set3[i]=set1[i]||set2[i];
   }

    for(i=0;i<n2;i++)
    {
       printf("%d",set3[i]);
    }


}
else
{
printf("size are not equal");
}

break;
 case 2:
printf("\nenter the size of set1\n");
scanf("%d",&n1);
```

```
printf("enter the element of set1\n");
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);
printf("enter the size of set2\n");
scanf("%d",&n2);
printf("enter the elements of set2\n");
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);

if(n1==n2)
{
   for(i=0;i<n2;i++)
   {


   set3[i]=set1[i]&&set2[i];
   }

    for(i=0;i<n2;i++)
    {
        printf("%d",set3[i]);
    }


}
else
{
printf("size are not equal");
}
break;
```

```
 case 3:
printf("\nenter the size of set1\n");
scanf("%d",&n1);

printf("enter the element of set1\n");
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);
printf("enter the size of set2\n");
scanf("%d",&n2);
printf("enter the elements of set2\n");
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);

if(n1==n2)
{

 for(i=0;i<n2;i++)
 {


    set3[i]=set1[i]&&!set2[i];
    }

     for(i=0;i<n2;i++)
     {
         printf("%d",set3[i]);
     }


}
```

```
else
{
printf("size are not equal");
}

break;

default:
printf("invalid case input");

}
printf("\n want to continue: ");
scanf("%c",&wish);
}
while(wish!='n');
}
```


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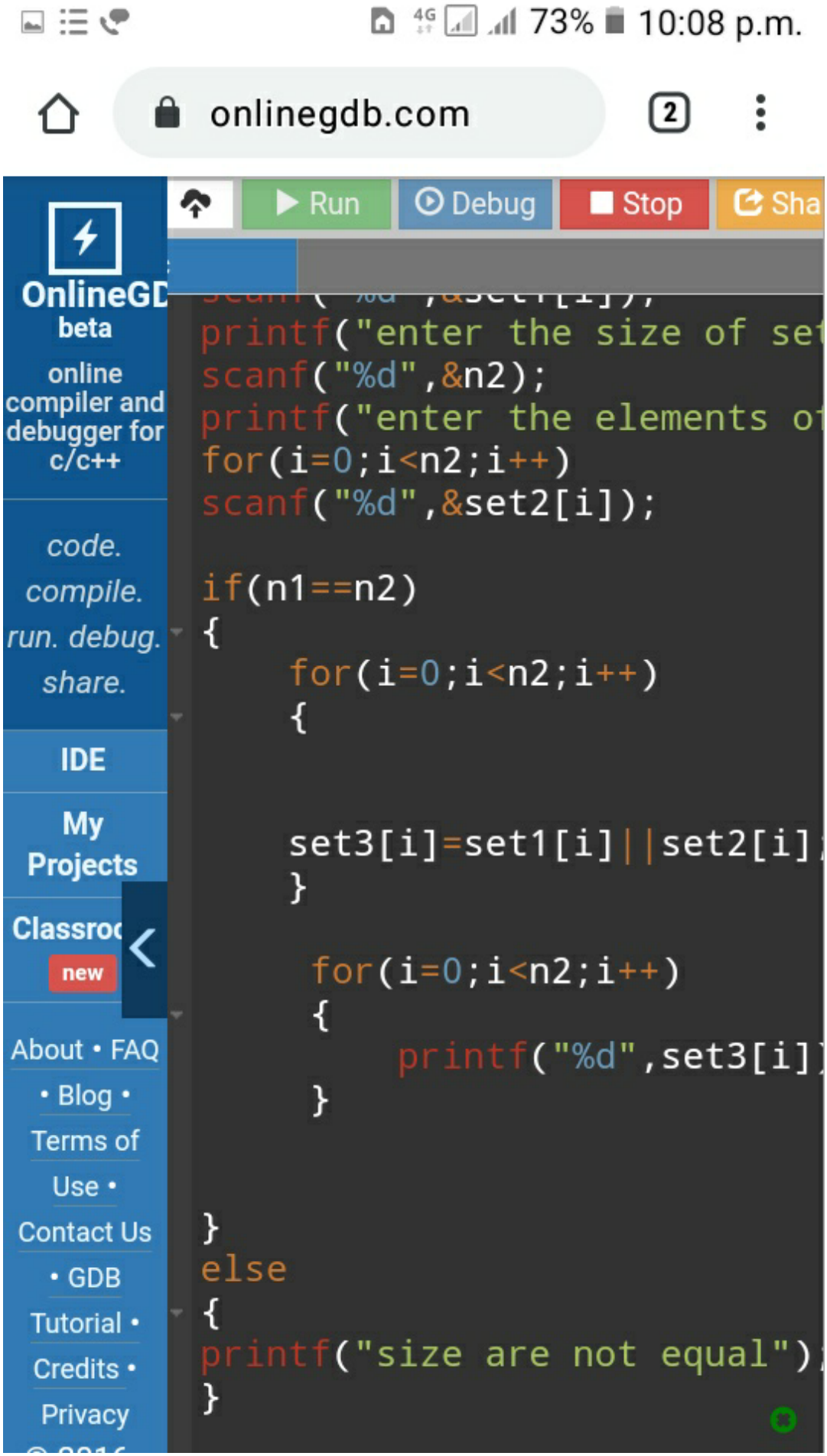
#include<stdio.h>
void main()
{
int i,ch,n1,n2,set1[10],set2
char wish;
do
{
printf("press 1 for union");
printf("\npress 2 for interse
printf("\npress 3 for differe
printf("\n enter ur choice");
scanf("%d",&ch);
switch(ch)
{
case 1:
printf("\nenter the size of
scanf("%d",&n1);
printf("enter the element of
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);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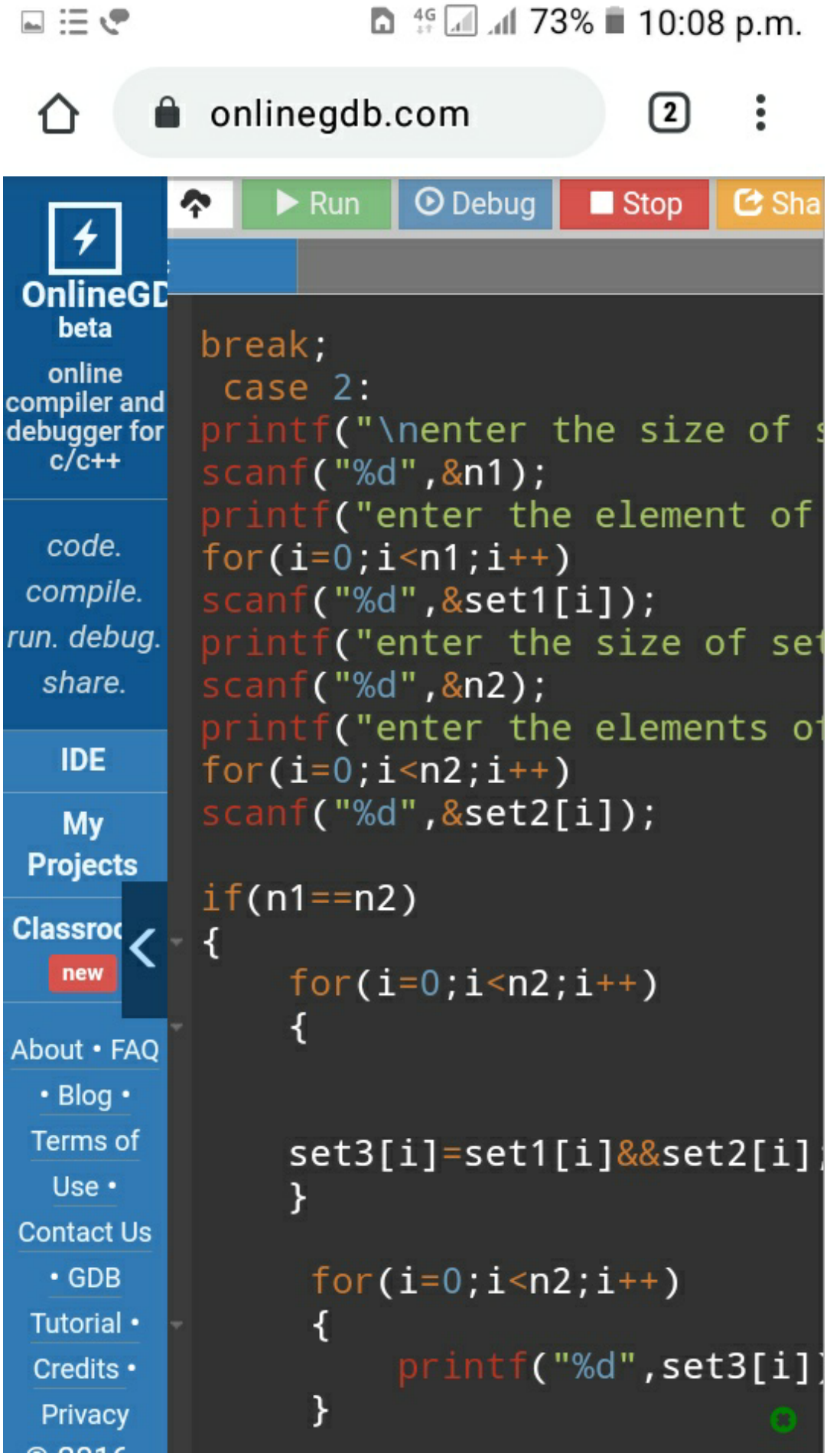
printf("enter the size of set
scanf("%d",&n2);
printf("enter the elements of
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);
if(n1==n2)
{
for(i=0;i<n2;i++)
{
set3[i]=set1[i]||set2[i];
}
for(i=0;i<n2;i++)
{
printf("%d",set3[i]);
}
}
else
{
printf("size are not equal");
}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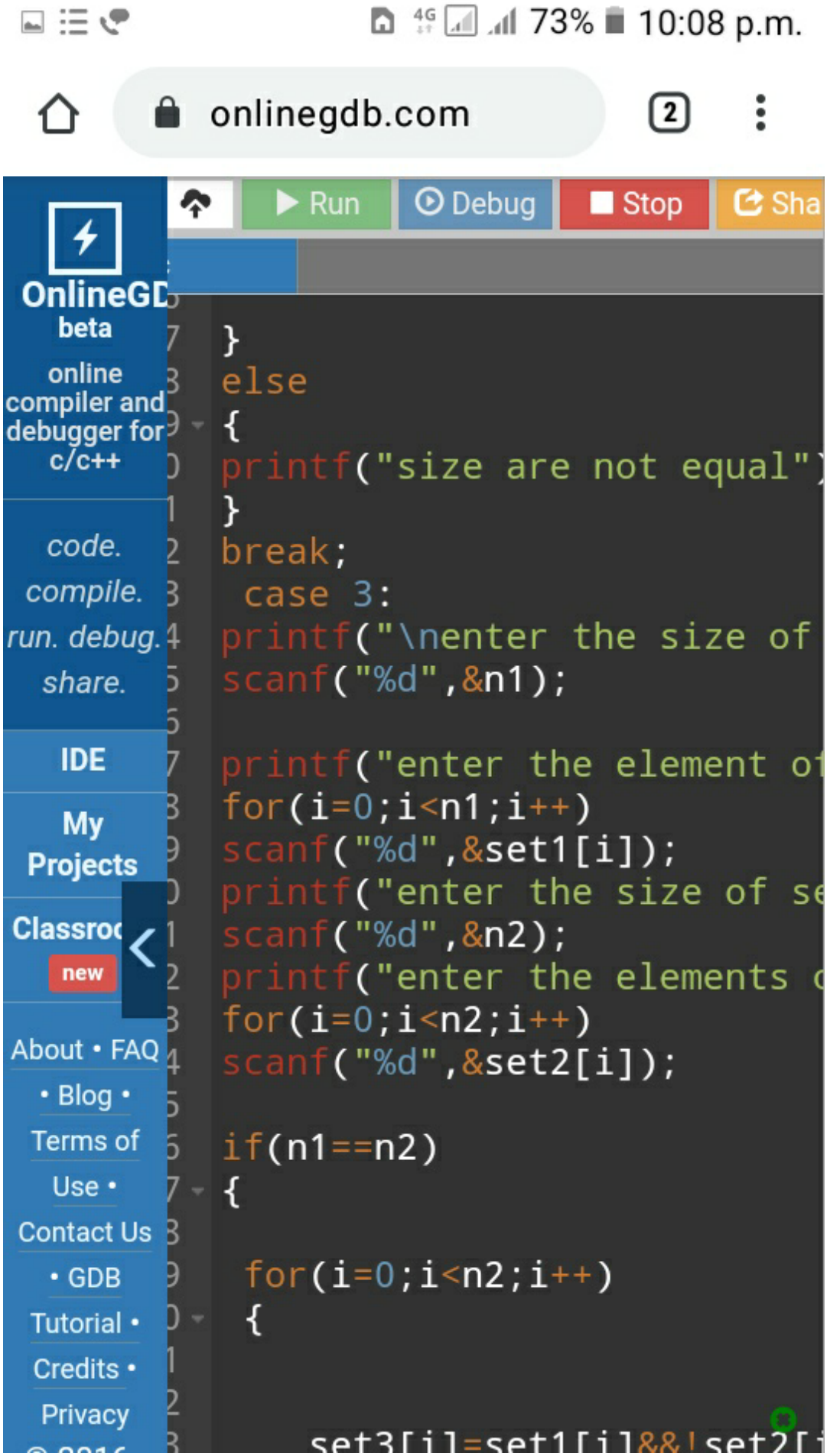
break;
case 2:
printf("\nenter the size of s
scanf("%d",&n1);
printf("enter the element of
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);
printf("enter the size of set
scanf("%d",&n2);
printf("enter the elements of
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);
if(n1==n2)
{
for(i=0;i<n2;i++)
{
set3[i]=set1[i]&&set2[i];
}
for(i=0;i<n2;i++)
{
printf("%d",set3[i]);
}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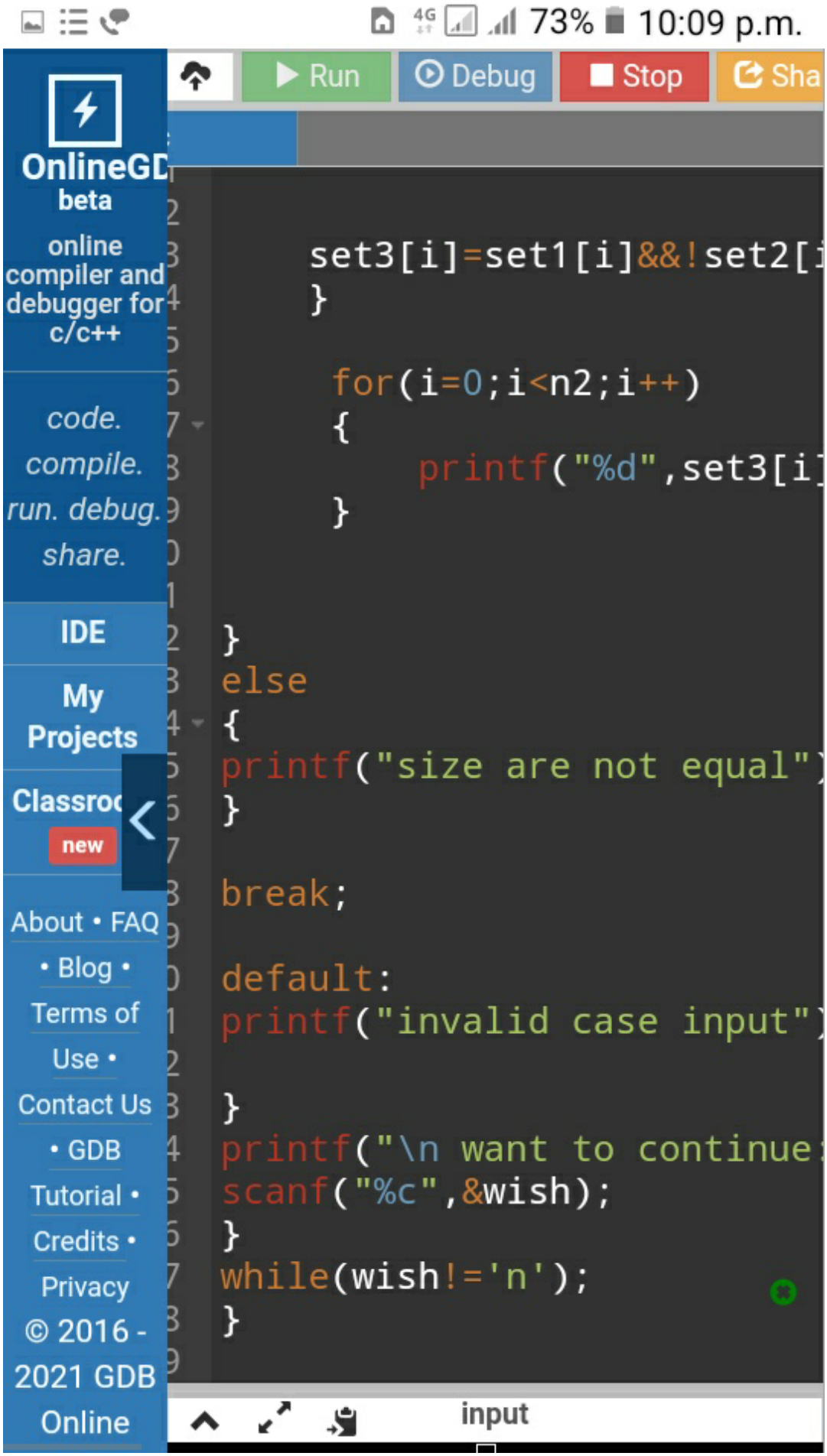
}
else
{
printf("size are not equal"
}
break;
case 3:
printf("\nenter the size of
scanf("%d",&n1);
printf("enter the element of
for(i=0;i<n1;i++)
scanf("%d",&set1[i]);
printf("enter the size of se
scanf("%d",&n2);
printf("enter the elements
for(i=0;i<n2;i++)
scanf("%d",&set2[i]);
if(n1==n2)
{
for(i=0;i<n2;i++)
{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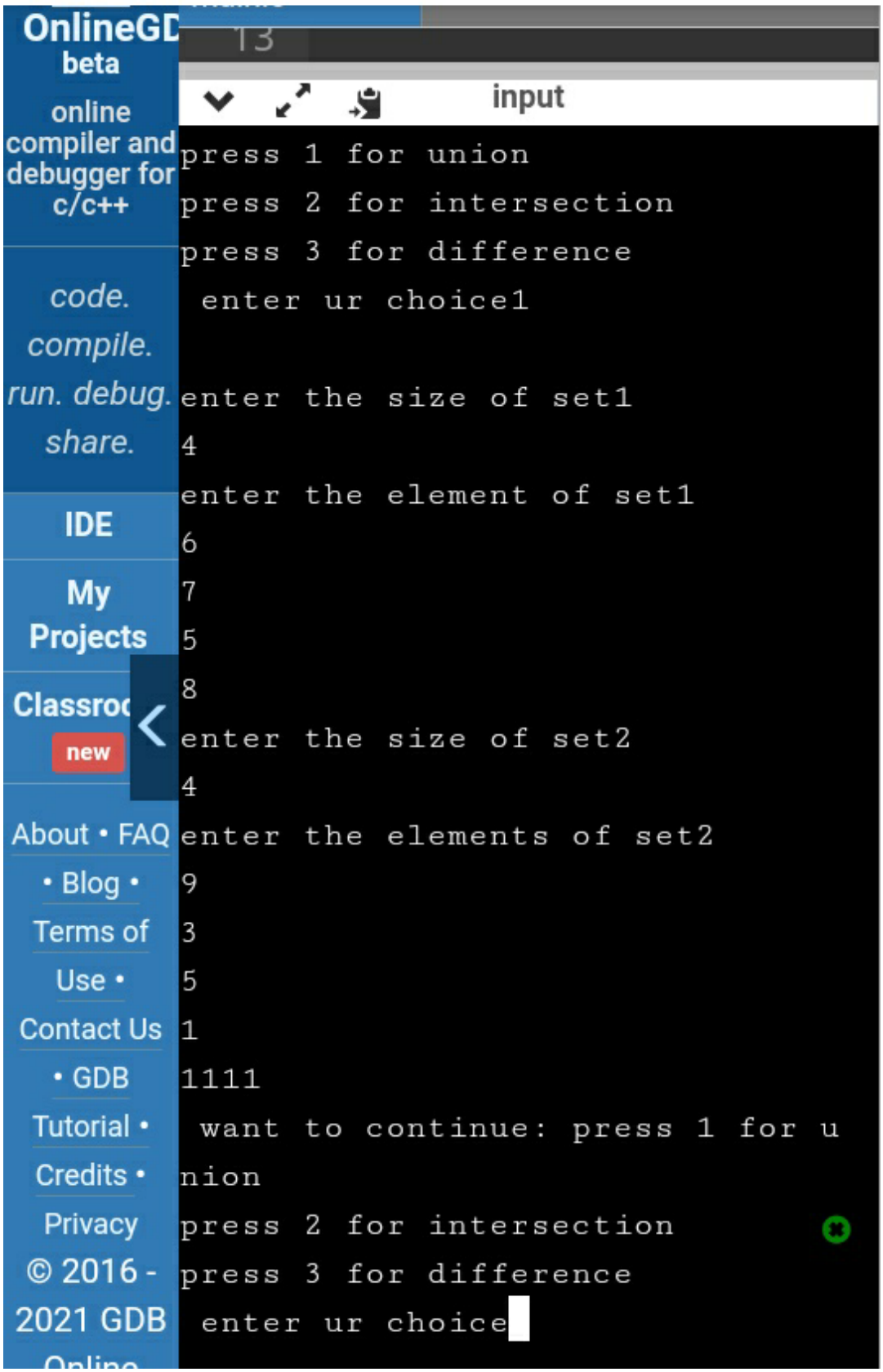
set3[i]=set1[i]&&!set2[i
}
for(i=0;i<n2;i++)
{
printf("%d",set3[i]
}
}
else
{
printf("size are not equal")
}
break;
default:
printf("invalid case input")
}
printf("\n want to continue
scanf("%c",&wish);
}
while(wish!='n');
}
input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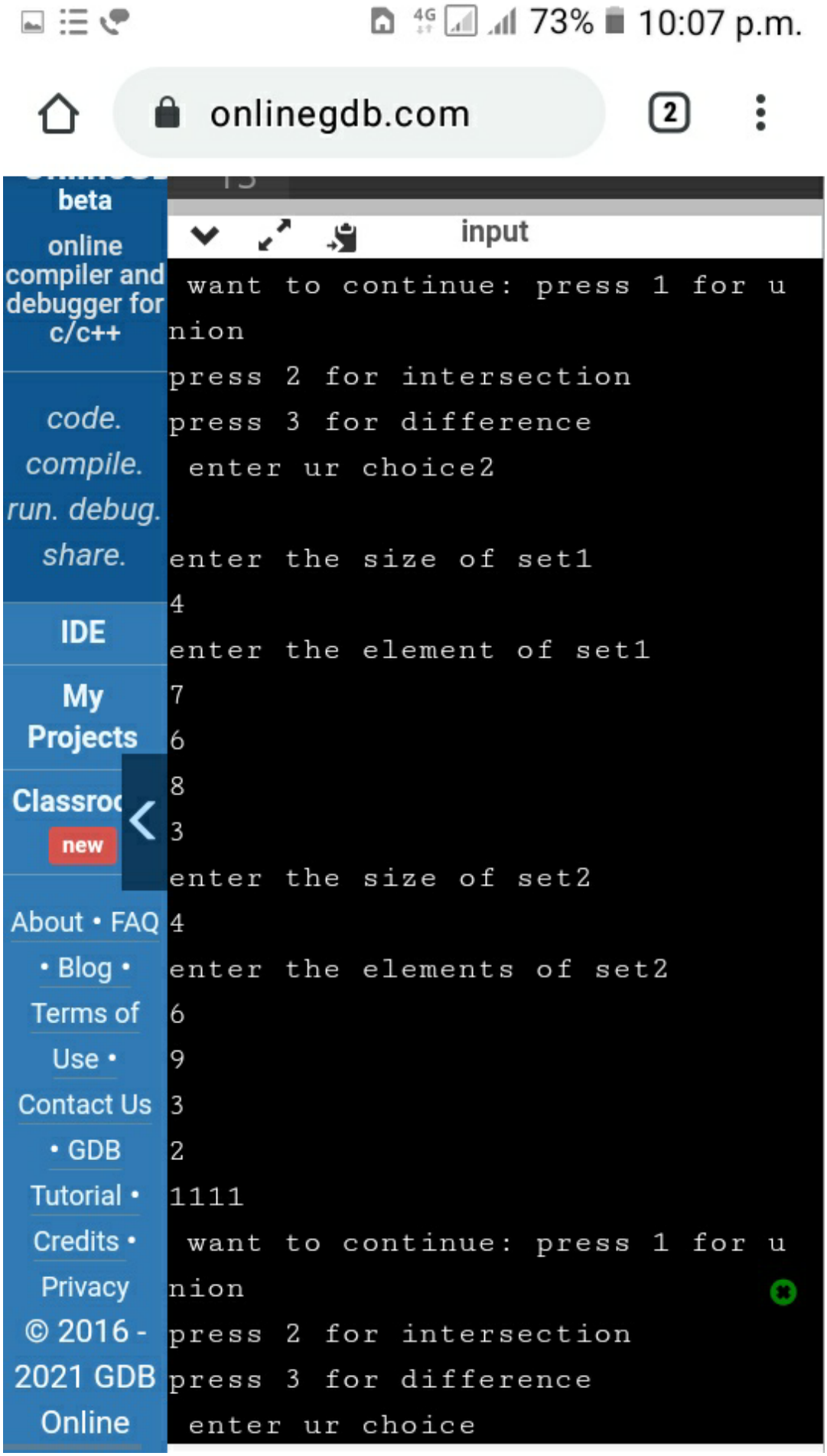
13
input
press 1 for union
press 2 for intersection
press 3 for difference
enter ur choice1
enter the size of set1
4
enter the element of set1
6
7
5
8
enter the size of set2
4
enter the elements of set2
9
3
5
1
1111
want to continue: press 1 for u
nion
press 2 for intersection
press 3 for difference
enter ur choice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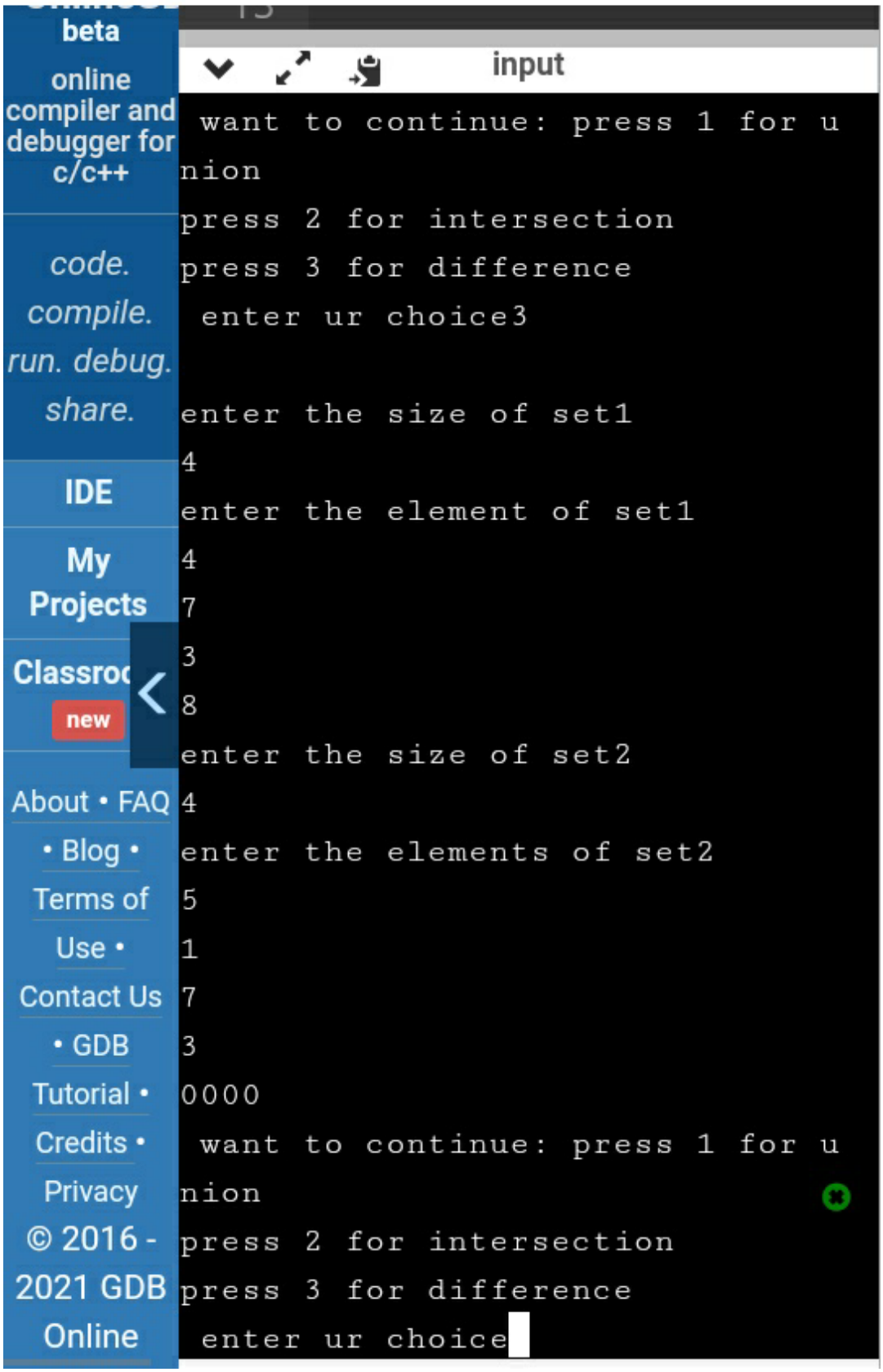
input
want to continue: press 1 for union
press 2 for intersection
press 3 for difference
enter ur choice2
enter the size of set1
4
enter the element of set1
7
6
8
3
enter the size of set2
4
enter the elements of set2
6
9
3
2
1111
want to continue: press 1 for union
press 2 for intersection
press 3 for difference
enter ur choice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input
want to continue: press 1 for union
press 2 for intersection
press 3 for difference
enter ur choice3
enter the size of set1
4
enter the element of set1
4
7
3
8
enter the size of set2
4
enter the elements of set2
5
1
7
3
0000
want to continue: press 1 for union
press 2 for intersection
press 3 for difference
enter ur choice