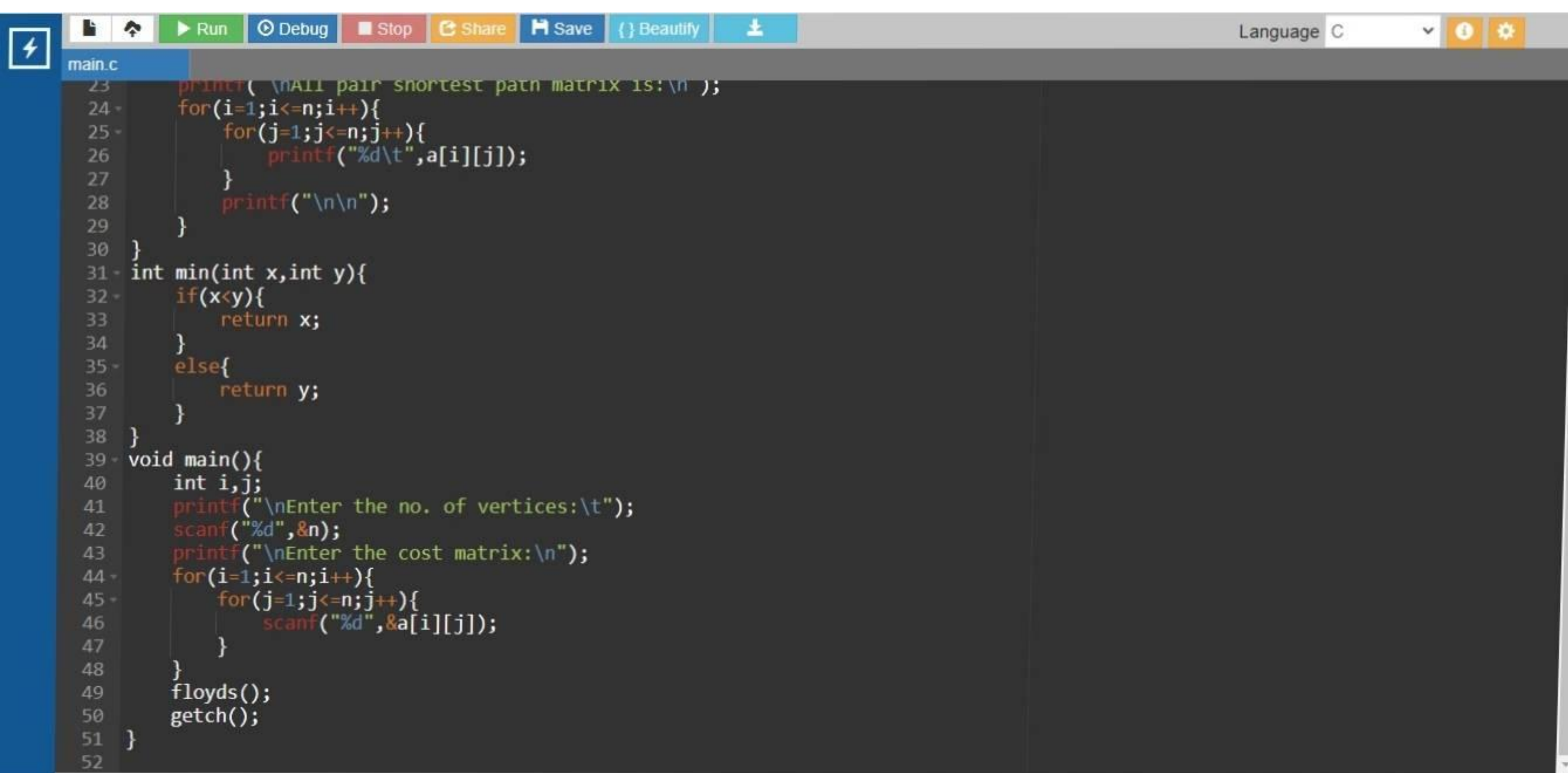


```

8
9 #include<stdio.h>
10 #include<conio.h>
11 int a[10][10],n;
12 void floyds();
13 int min(int,int);
14 void floyds(){
15     int i,j,k;
16     for(k=1;k<=n;k++){
17         for(i=1;i<=n;i++){
18             for(j=1;j<=n;j++){
19                 a[i][j]=min(a[i][j],a[i][k]+a[k][j]);
20             }
21         }
22     }
23     printf("\nAll pair shortest path matrix is:\n");
24     for(i=1;i<=n;i++){
25         for(j=1;j<=n;j++){
26             printf("%d\t",a[i][j]);
27         }
28         printf("\n\n");
29     }
30 }
31 int min(int x,int y){
32     if(x<y){
33         return x;
34     }
35     else{
36         return y;
37     }

```



The image shows a screenshot of a C code editor. The editor has a dark theme and a toolbar at the top with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to C. The code is for a program that calculates the shortest path matrix using Floyd's algorithm. It includes a function to find the minimum of two numbers and a main function that prompts the user for the number of vertices and the cost matrix, then calls the Floyd's algorithm function.

```
main.c
23 printf( "\nAll pair shortest path matrix is:\n ");
24 for(i=1;i<=n;i++){
25     for(j=1;j<=n;j++){
26         printf("%d\t",a[i][j]);
27     }
28     printf("\n\n");
29 }
30 }
31 int min(int x,int y){
32     if(x<y){
33         return x;
34     }
35     else{
36         return y;
37     }
38 }
39 void main(){
40     int i,j;
41     printf("\nEnter the no. of vertices:\t");
42     scanf("%d",&n);
43     printf("\nEnter the cost matrix:\n");
44     for(i=1;i<=n;i++){
45         for(j=1;j<=n;j++){
46             scanf("%d",&a[i][j]);
47         }
48     }
49     floyds();
50     getch();
51 }
52
```

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```
Enter the no. of vertices:      4

Enter the cost matrix:
9999 3 9999 9999
6 9999 9999 9999
9999 7 2 9999
9999 9999 9999 1

All pair shortest path matrix is:
9      3      9999      9999
6      9      9999      9999
13     7      2      9999
9999   9999   9999      1

...Program finished with exit code 0
Press ENTER to exit console.
```