

main.c

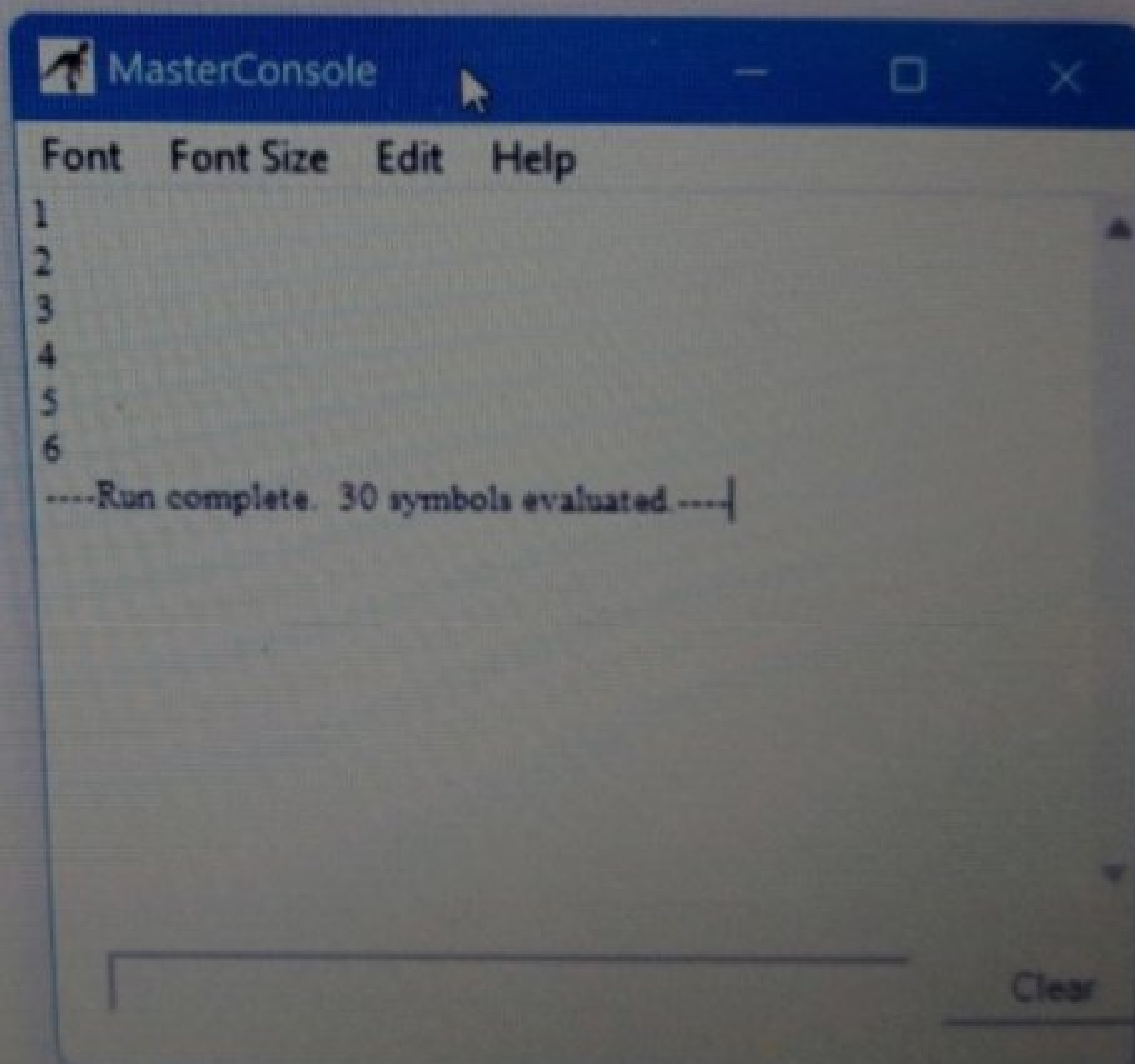
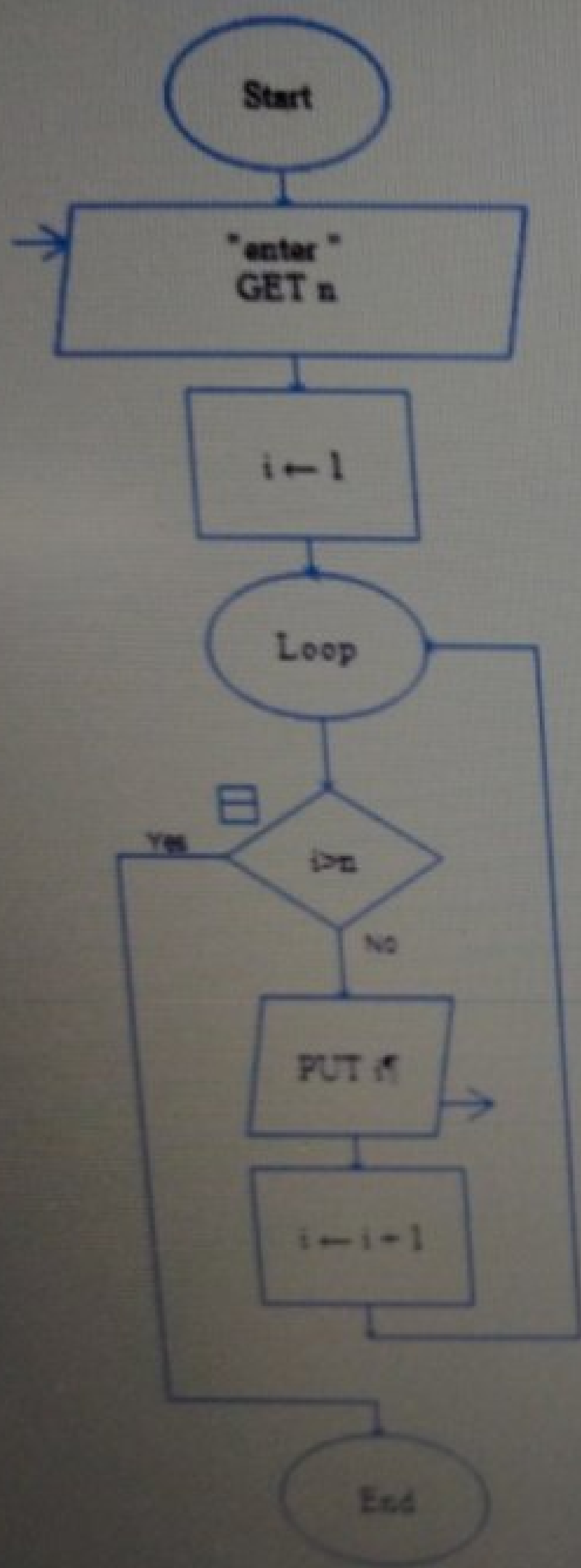
```
1  #include <stdio.h>
2
3
4  void main()
5  {
6      int n;
7      printf("enter the number :");
8      scanf("%d",&n);
9      for ( int i=0;i<=n;i++)
10     {
11         printf(" %d",i);
12     }
13 }
14
```

enter the number :8

0 1 2 3 4 5 6 7 8

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

Js • GDB



- 1) Step 1 - Begin
- Step 2 - declare into variable
- Step 3 - Read value
- Step 4 - condition  $(i=1; i \leq a; i++)$
- Step 5 - print the variable
- Step 6 - end



main.c

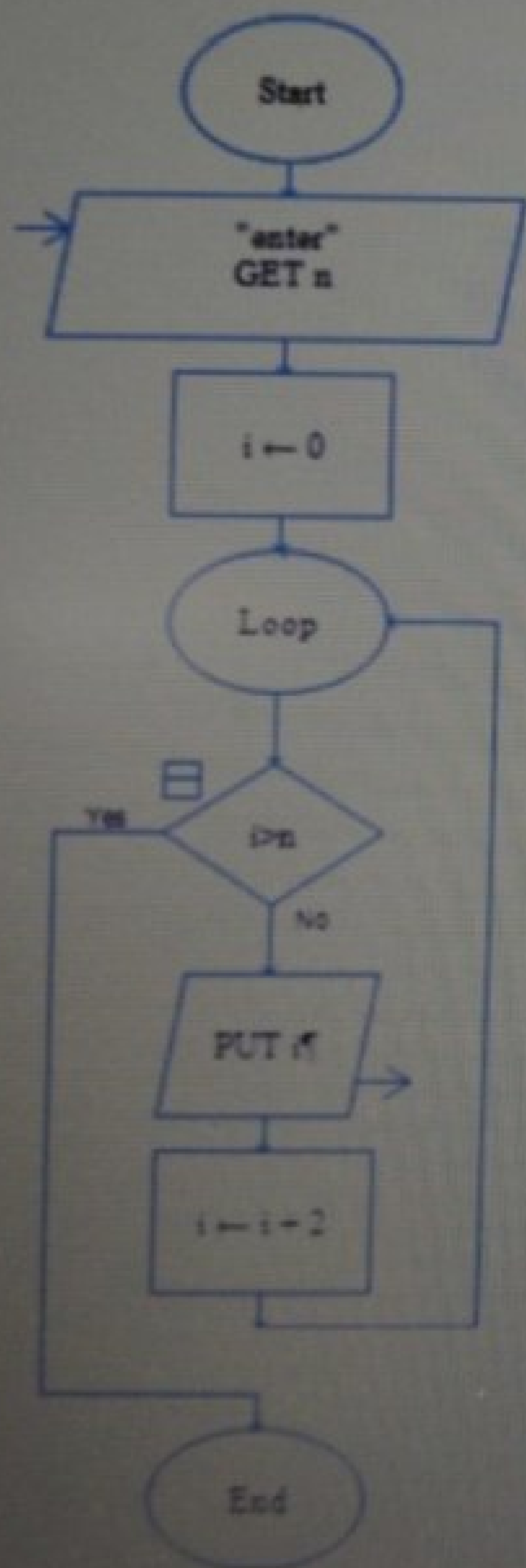
```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,i,j;
7     printf("enter the number ");
8     scanf("%d",&n);
9     for(i=0;i<=n;i=i+2)
10    {printf("  %d",i);
11    }
12 }
13
```

input

enter the number 8

0 2 4 6 8

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



MasterConsole

Font Font Size Edit Help

024  
----Run complete. 18 symbols evaluated.----  
0  
2  
4  
----Run complete. 18 symbols evaluated.----

Clear

- 2) step 1 - begin
- step 2 - declare into variable
- step 3 - Read value
- step 4 - condition ( $i \cdot 1 \cdot 2 = 0$ )
- step 5 - print the variable
- step 6 - end



main.c

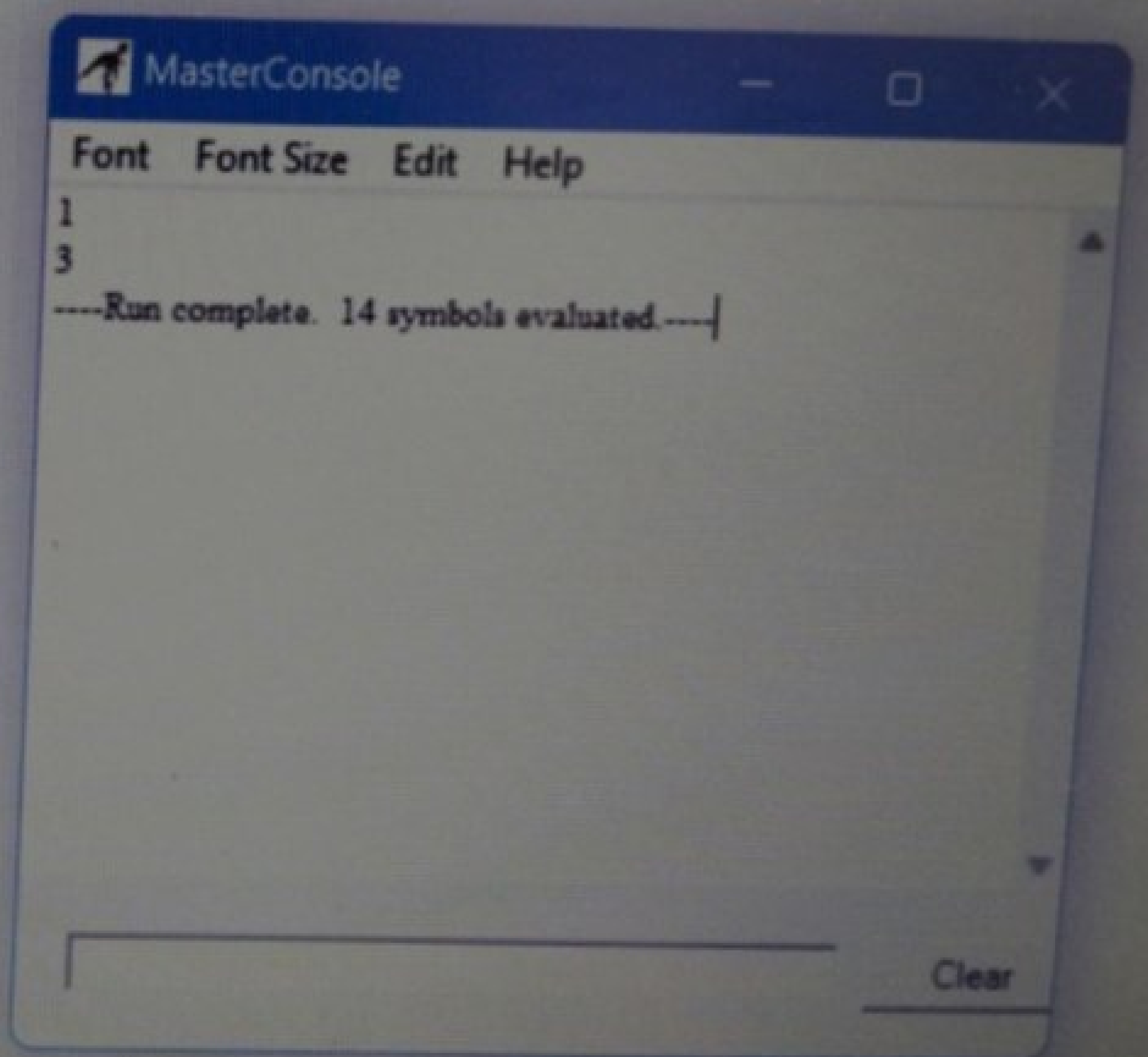
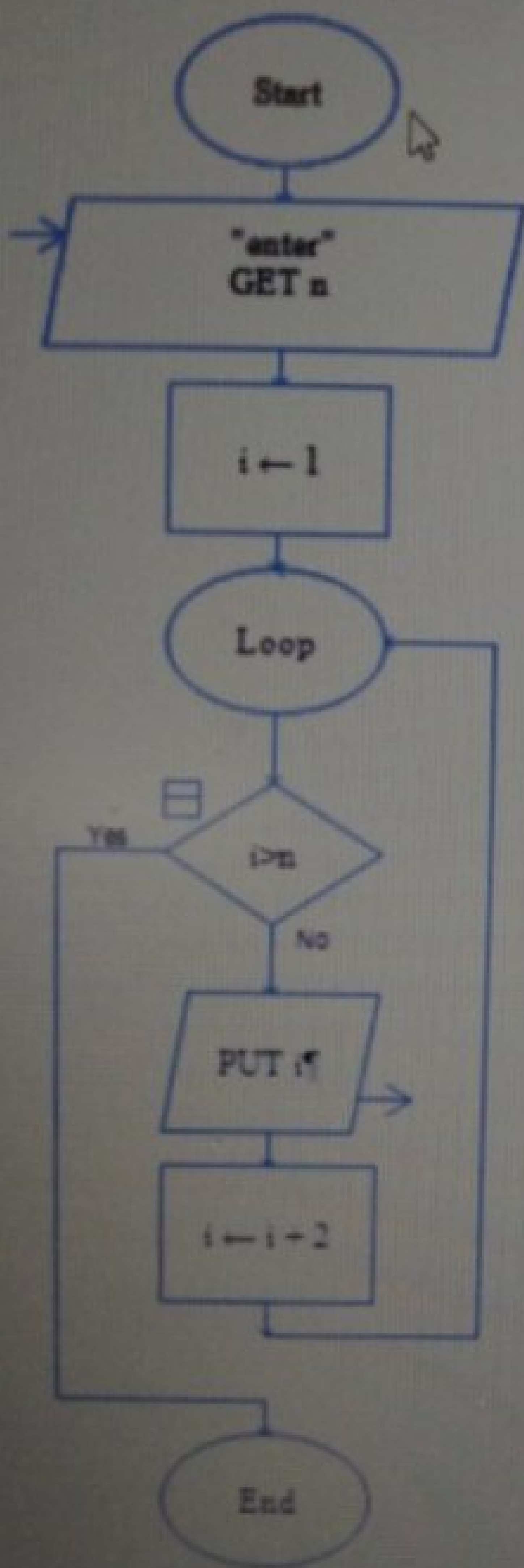
```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,i,j;
7     printf("enter the number ");
8     scanf("%d",&n);
9     for(i=1;i<=n;i=i+2)
10    {printf("  %d",i);
11    }
12 }
13
```

input

enter the number 8

1 3 5 7

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





3)

step 1 - begin

step 2 - declare into variable

step 3 - Read value

step 4 - condition ( $i \cdot 1 \cdot 2 = 0$ )

step 5 - print the value

step 6 - END

```

1  #include <stdio.h>
2
3
4  void main()
5  {
6      int a=0 ,b=1,n,t ;
7      printf("enter the number ");
8      scanf("%d",&n);
9      while(a<=n){
10         printf("%d,",a);
11
12         t=a;
13         a=b;
14         b=b+t;
15     }
16 }
17

```

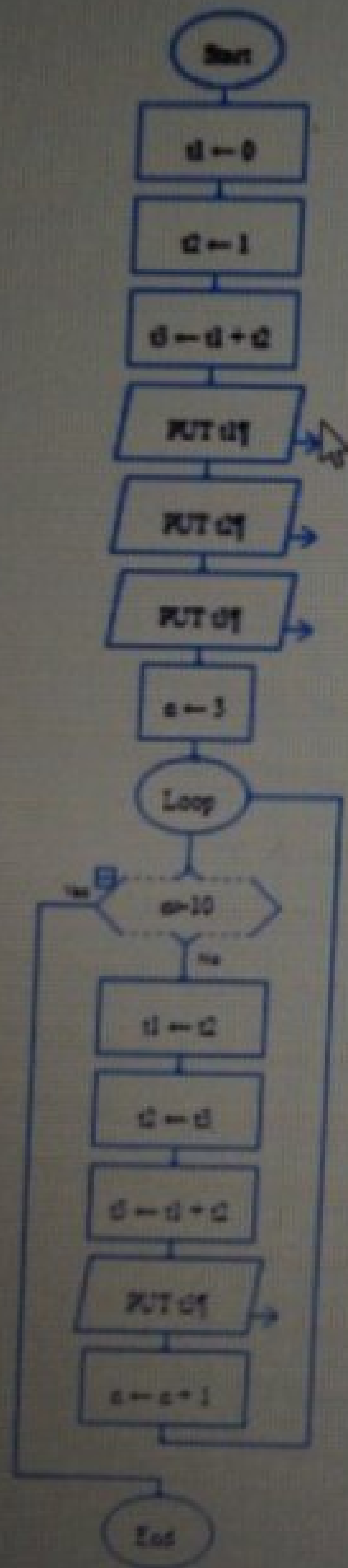
enter the number 5

0,1,1,2,3,5,

...Program finished with exit code 0

Press ENTER to exit console.

main



MasterConsole

Font Font Size Edit Help

```
0
1
1
2
3
5
8
13
21
34
55
----Run complete. 67 symbols evaluated.----
```

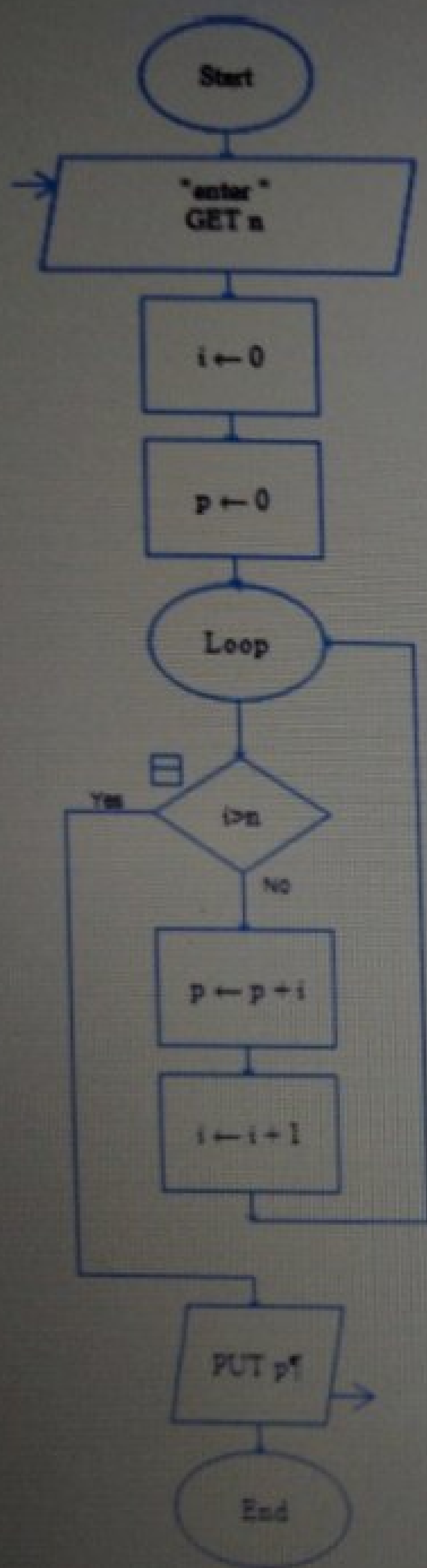
Clear

- 4) Step 1 - begin
- Step 2 - Declare the variable
- Step 3 - Start a loop that if from 1 to n
- Step 4 - Read the variable
- Step 5 - print the values
- Step 6 - END



```
1  #include <stdio.h>
2
3
4  void main()
5  {
6      int n ,i;
7      int a=0;
8      printf("enter the number :");
9      scanf("%d",&n);
10     for(i=0;i<=n;i++)
11     {a=a+i;
12     }
13     printf("%d",a);
14
15 }
16
```

enter the number :5  
15  
...Program finished with exit code 0  
Press ENTER to exit console.



The screenshot shows a 'MasterConsole' window with the following text:

```
Font Font Size Edit Help
Can't compare these values: NUMBER_KIND STRING_KIND
----Error, run halted----
0
1
3
6
10
----Run complete. 32 symbols evaluated.----
10
----Run complete. 28 symbols evaluated.----
15
----Run complete. 32 symbols evaluated.----
15
----Run complete. 32 symbols evaluated.----
```

A 'Clear' button is visible at the bottom right of the console window.

5) Step 1 - Begin

Step 2 - declare in the variable

Step 3 - start a loop that From 1 to n

Step 4 - Each

Step 5 - print the values

Step 6 - END



main.c

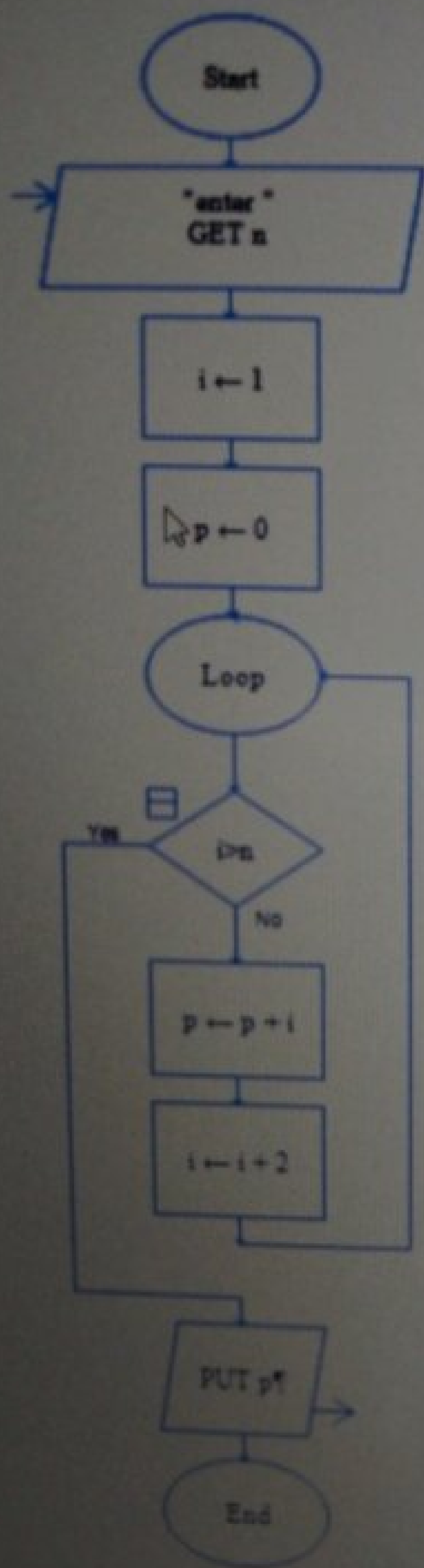
```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n ,i;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=0;i<=n;i=i+2)
11    {a=a+i;
12    }
13    printf("%d",a);
14
15 }
16
```

enter the number :4

6

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

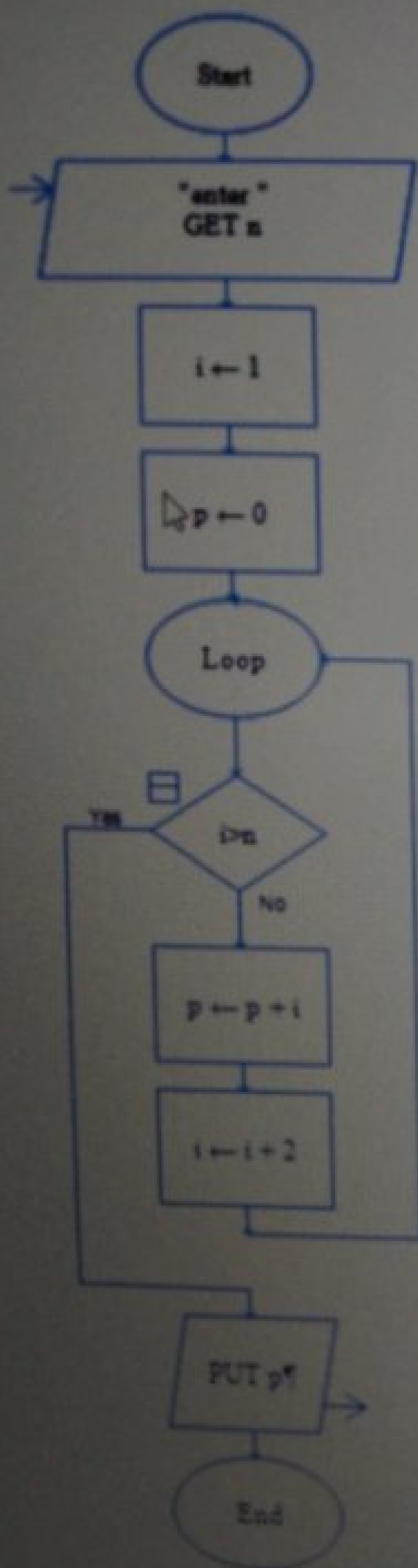




The screenshot shows a window titled 'MasterConsole' with a menu bar containing 'Font', 'Font Size', 'Edit', and 'Help'. The main text area displays the output of the program: '16' followed by a line separator '----Run complete. 24 symbols evaluated.----'. At the bottom right of the window is a 'Clear' button.

- 6) Step 1 - Begin
- Step 2 - Declare int variable
- Step 3 - Start a loop that iterates from 2 to n
- Step 4 - In each iteration of the loop check current value of  $i$  is Testing when  $i/2 = 0$
- Step 5 - print the value
- Step 6 - END

```
main.c
Run Debug Stop Share Save () Beautify
1 #include <stdio.h>
2
3
4 void main()
5 {
6     int n ,i;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i=i+2)
11    {a=a+i;
12    }
13    printf("%d",a);
14
15 }
16
input
enter the number :5
9
...Program finished with exit code 0
Press ENTER to exit console.
```



MasterConsole

Font Font Size Edit Help

16

----Run complete. 24 symbols evaluated.----

Clear



- Step 3 - start a loop the fact's From 1 to n
- Step 4 - Try each iteration of the loop, checks if the variable.
- Step 5 - print the value
- Step 6 - end

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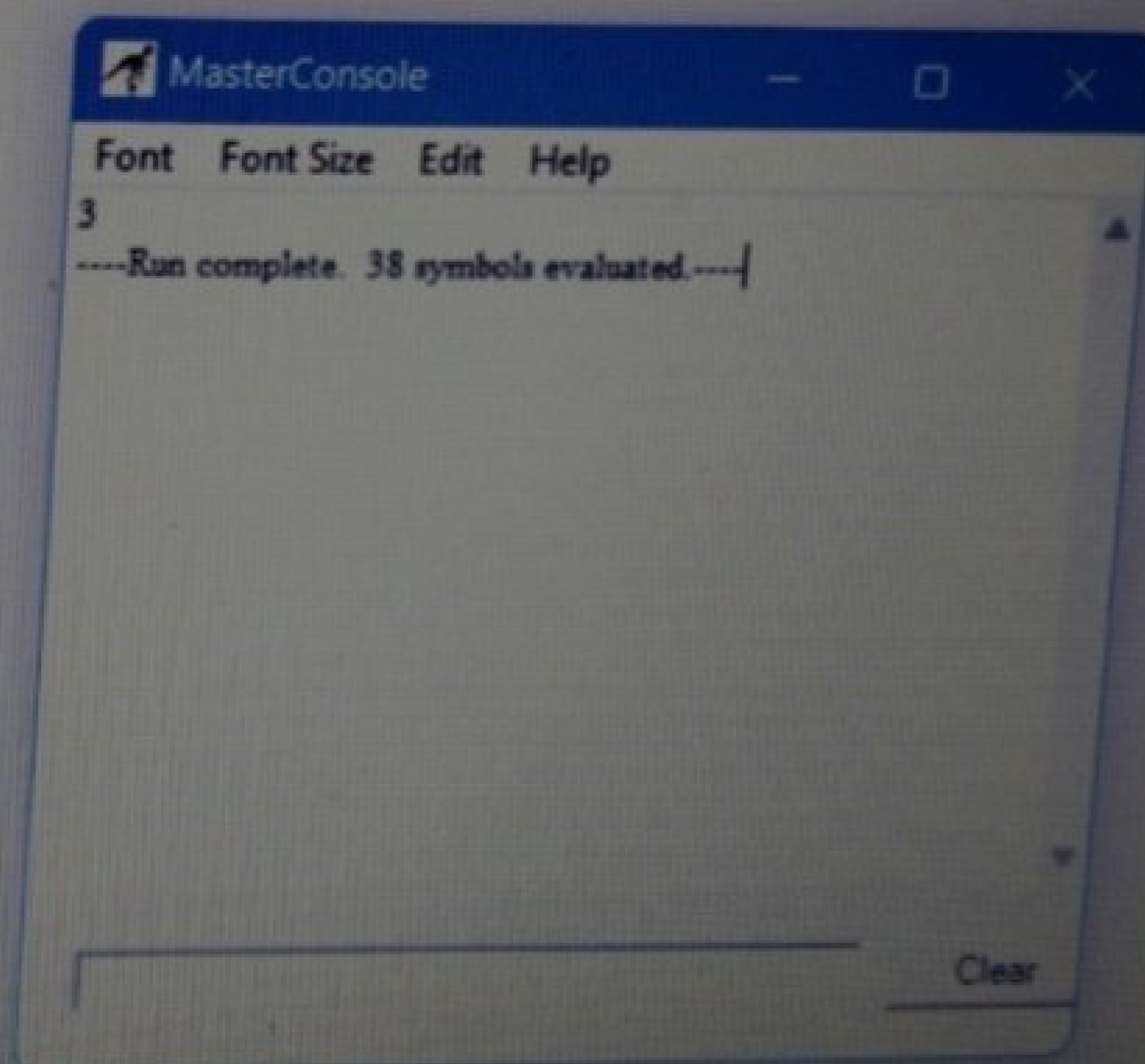
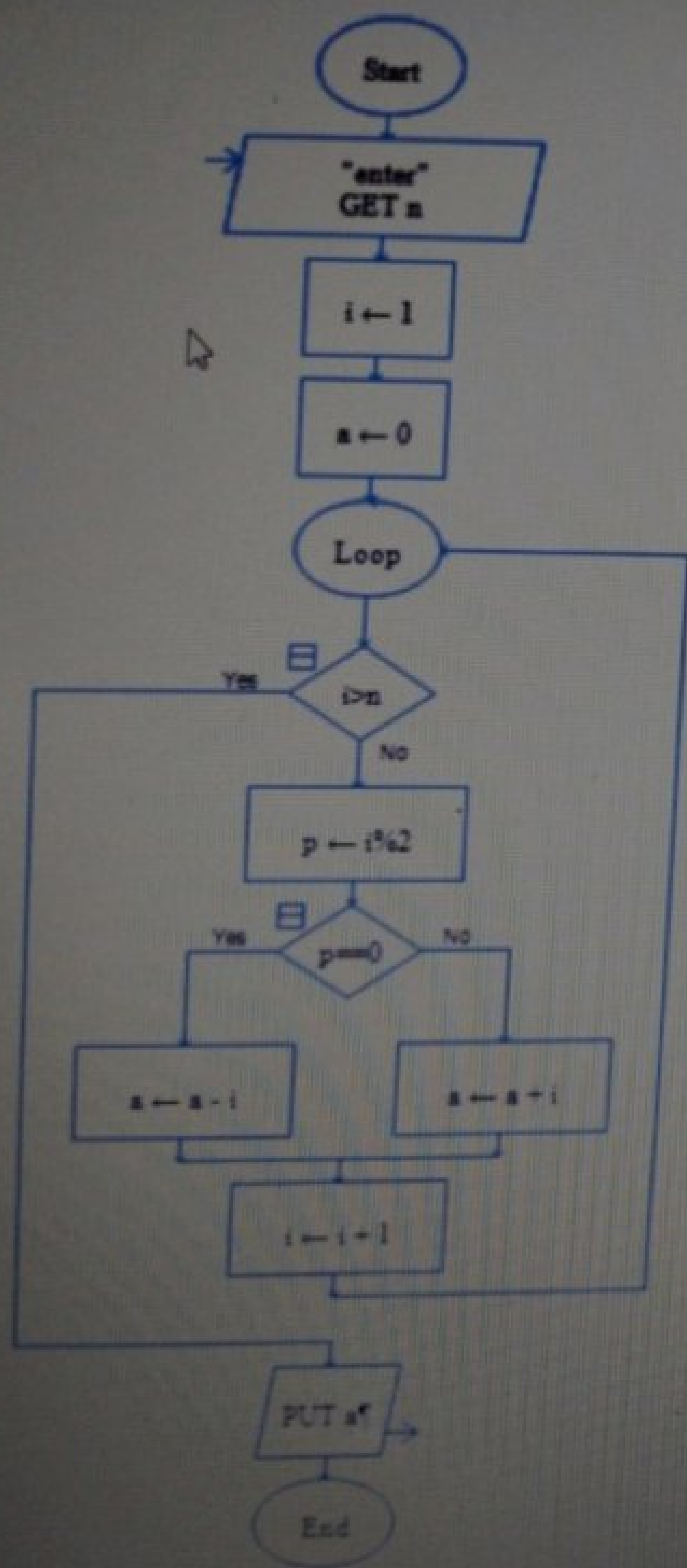
main.c

```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,i,p;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i++)
11    {
12        p=i%2;
13        if(p==0){
14            a=a-i;}
15        else{
16            a=a+i;
17        }
18    }
19    printf("%d",a);
20
21 }
22
23
```

Run Debug Stop Share Save Beautify

enter the number :5

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



8) Step 1 - Begin

Step 2 - declare int variable

Step 3 ÷ Start a loop that iterate from  
1 to n

Step 4 ÷ Multiply by 1 to alternate the sign  
every to other sum.

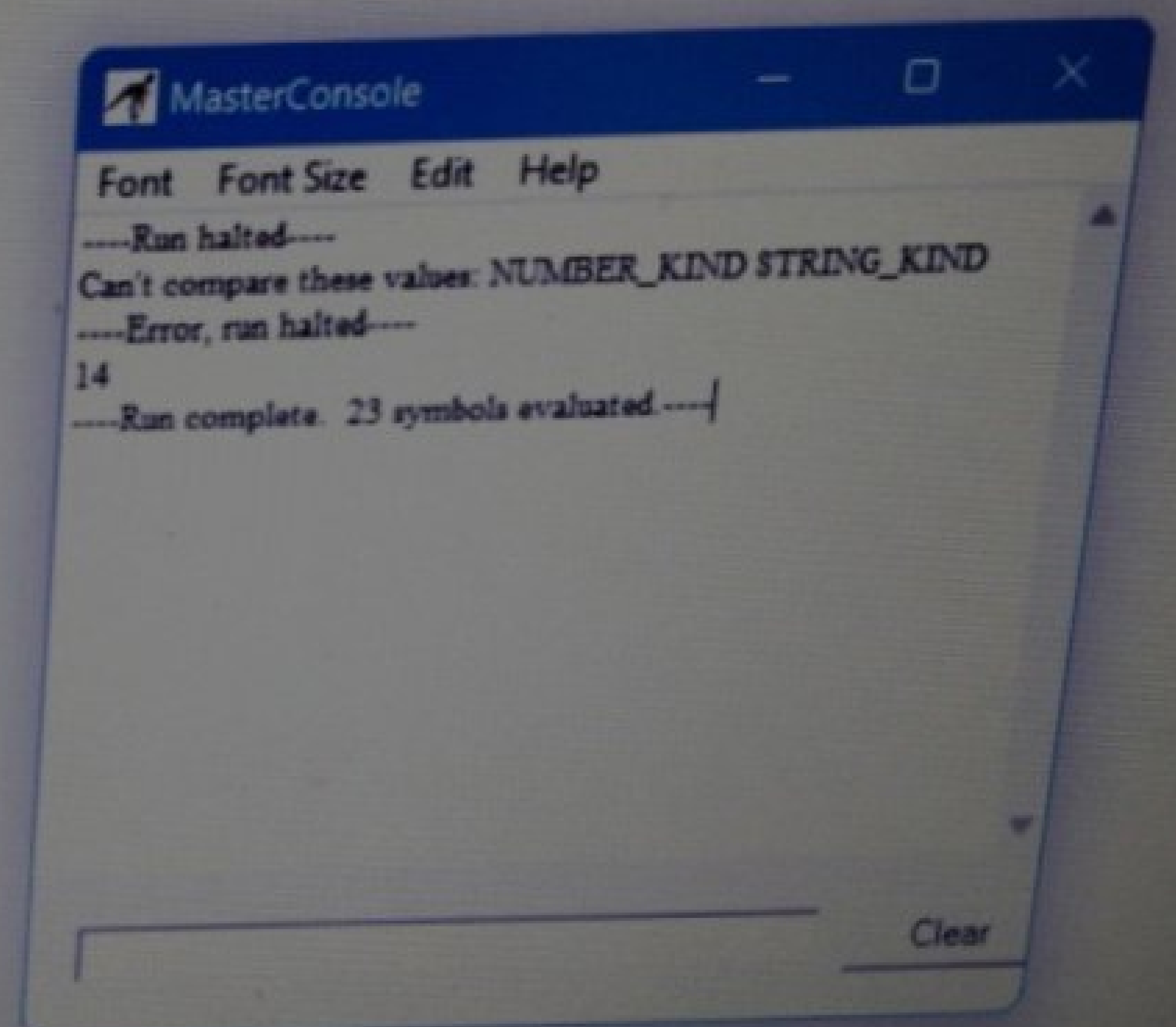
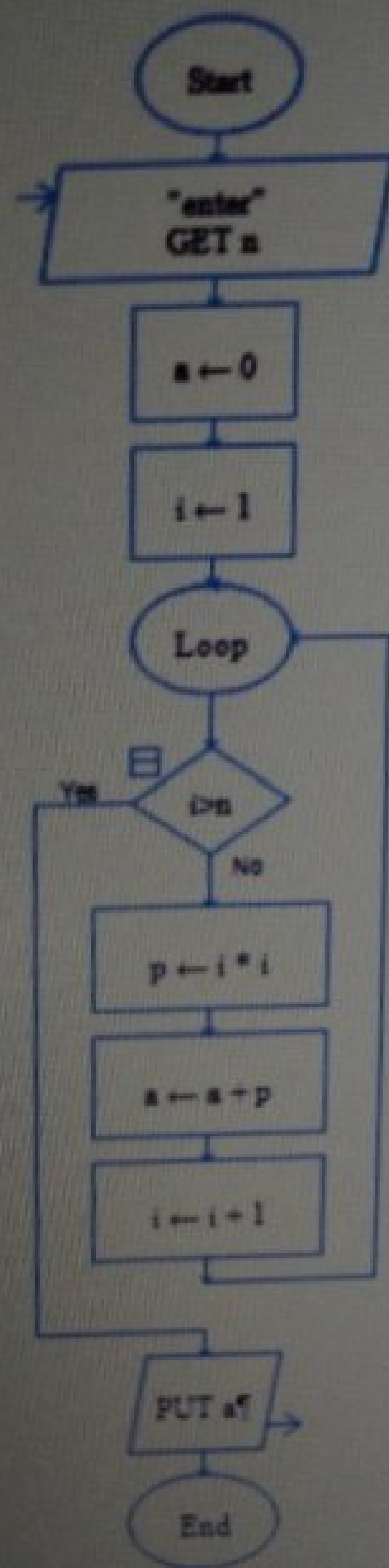
Step 5 ÷ print the numbers

Step 6 ÷ END



```
Run Debug Stop Share Save Beautify
main.c
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n ,i,p;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i++)
11    {
12        p=i*i;
13        a=a+p;
14    }
15    printf("%d",a);
16
17 }
18

input
enter the number :3
14
...Program finished with exit code 0
Press ENTER to exit console.
```



9) step 1 - begin

step 2 - declare the variable sum = 1

step 3 - start a loop that continues while  
i is less than (or) equal to 'n'

step 4 ÷ with the loop a add i to sum.

step 5 ÷ print the Numbers

step 6 ÷ END



Run Debug Stop Share Save () Beautify

main.c

```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n ,i,p;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=0;i<=n;i=i+2)
11    {
12        p=i*i;
13        a=a+p;
14    }
15    printf("%d",a);
16
17 }
18
```

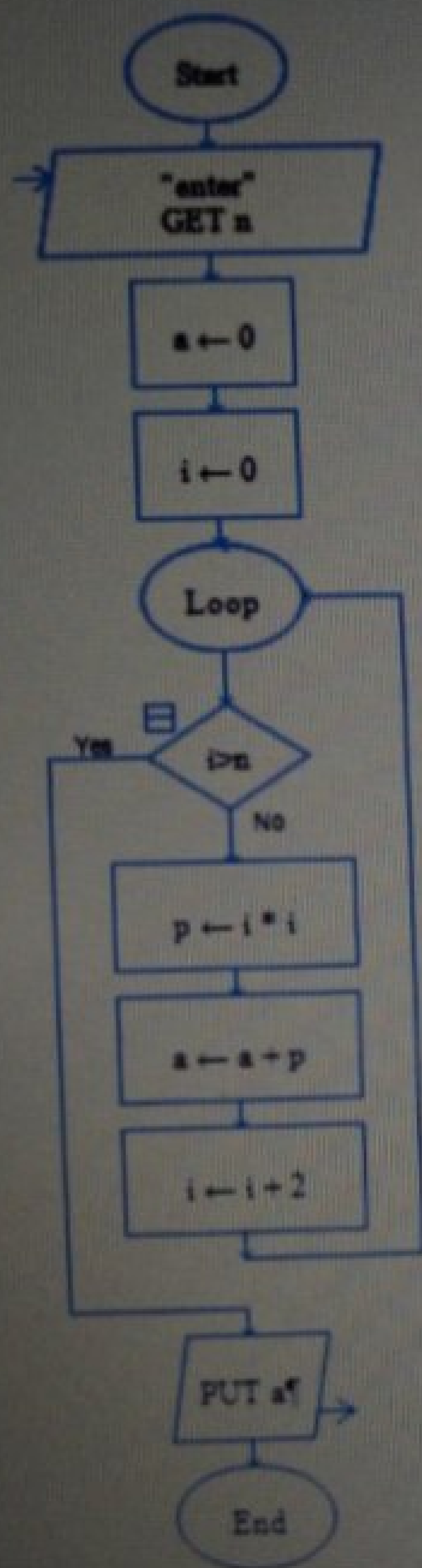
input

enter the number :3

4

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





The screenshot shows a 'MasterConsole' window with the following text:

```

Font  Font Size  Edit  Help
----Run halted----
Can't compare these values: NUMBER_KIND STRING_KIND
----Error, run halted----
14
----Run complete. 23 symbols evaluated.----
20
----Run complete. 23 symbols evaluated.----

```

The console also features a 'Clear' button at the bottom right.

10) Step 1 ÷ Begin

Step 2 ÷ initialize available sum to 0

Step 3 ÷ loop through all even numbers starting  
from 2 upto n.

Step 4 ÷ For each even number square it  
get the next term.

Step 5 ÷ Return the sum variable as the final  
answer.

Step 6 ÷ Print the Numbers

Step 7 ÷ End

3/15/20

main.c

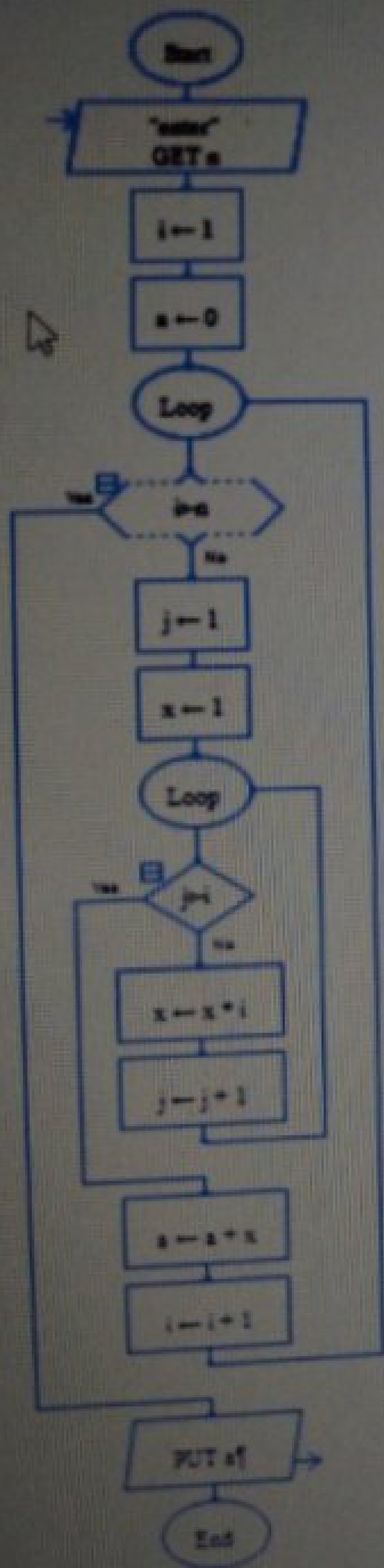
```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,a=0;
7     printf("enter the number :");
8     scanf("%d",&n);
9     for(int i=1;i<=n;i++)
10    {int x=1;
11     for (int j=1;j<=i;j++)
12     {
13         x=x*i;
14     }
15     a=a+x;
16 }
17     printf("%d",a);
18
19
20 }
21
```

enter the number :3

32

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





The screenshot shows the MasterConsole application window. The title bar reads 'MasterConsole'. The menu bar includes 'Font', 'Font Size', 'Edit', and 'Help'. The console output displays the following sequence of values and status messages:

```

4
3
9
27
----Run complete. 61 symbols evaluated.----
1
5
32
----Run complete. 58 symbols evaluated.----
1
5
32
----Run complete. 58 symbols evaluated.----
32
----Run complete. 56 symbols evaluated.----
  
```

At the bottom right of the console window, there is a 'Clear' button.

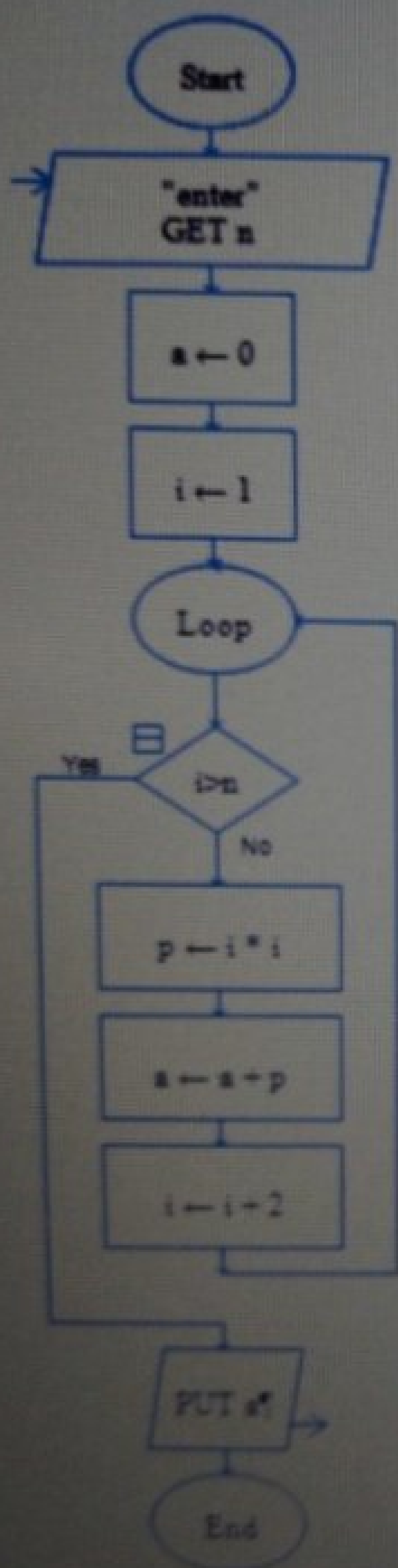


- Step 1 - Begin
- Step 2 - declare into variable
- Step 3 - Read value
- Step 4 - condition ( $i = 1; i \leq a; i++$ )
- Step 5 - print the variable
- Step 6 - end

```
main.c
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n ,i,p;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i=i+2)
11    {
12        p=i*i;
13        a=a+p;
14    }
15    printf("%d",a);
16
17 }
18
```

enter the number :3  
10

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



MasterConsole

Font Font Size Edit Help

10

-----Run complete. 18 symbols evaluated.-----

Clear

step 1 - begin

step 2 - declare into variable

step 3 - Read value

step 4 - condition ( $i \cdot 1 \cdot 2 = 0$ )

step 5 - print the variable

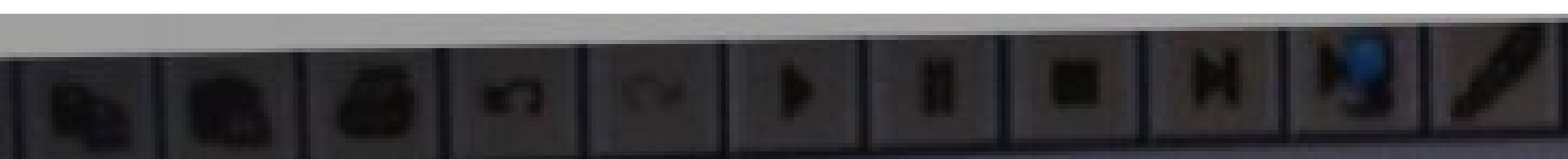
step 6 - end



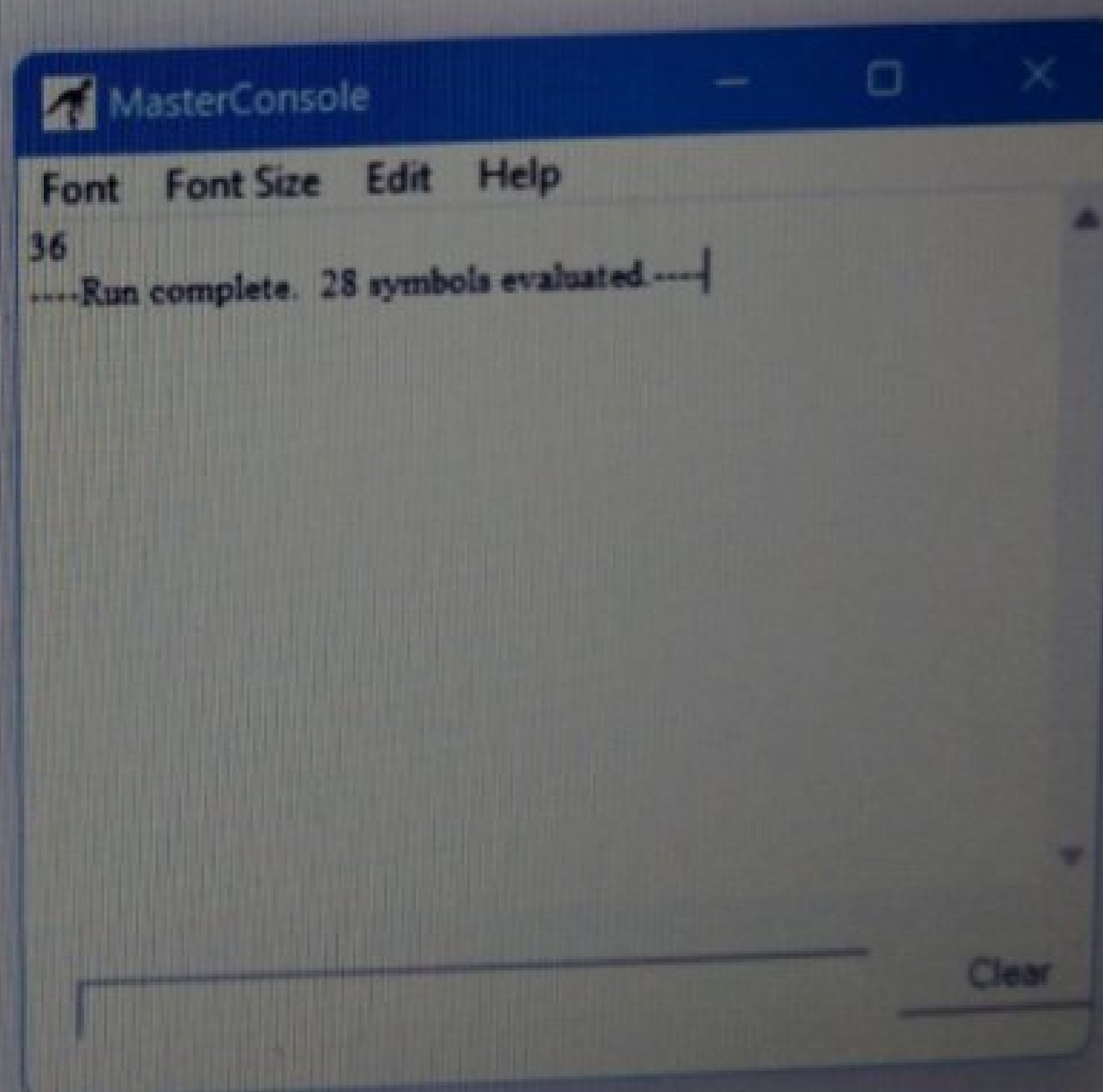
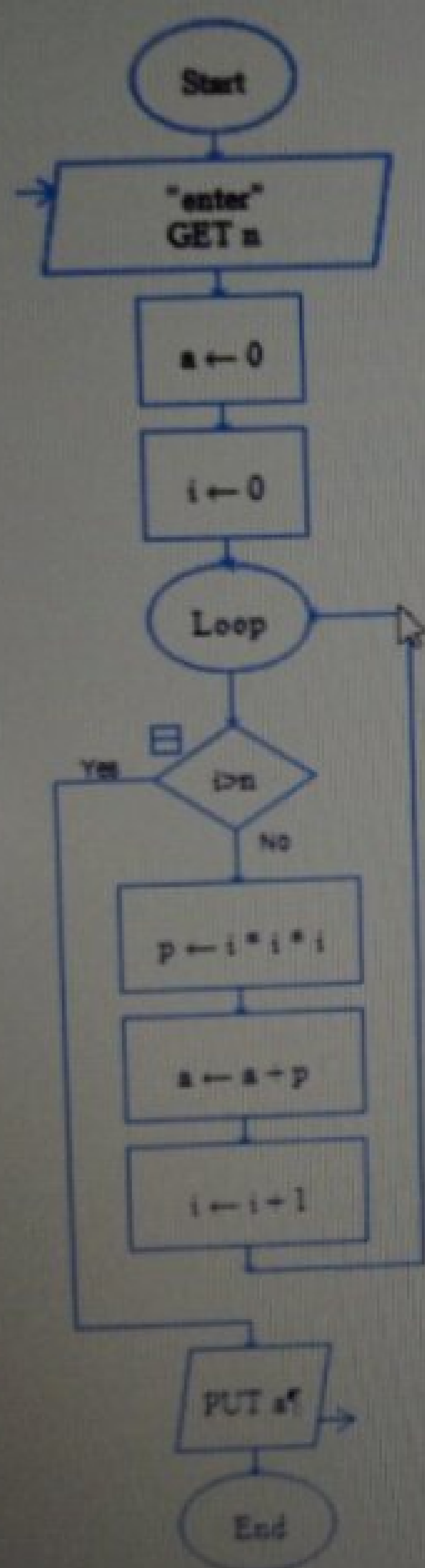
```
1 #include <stdio.h>
2
3
4 void main()
5 {
6     int n,i,p;
7     int a=0;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i++)
11    {
12        p=i*i*i;
13        a=a+p;
14    }
15    printf("%d",a);
16
17 }
18
```

enter the number :3  
36

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



main



step 1 - begin

step 2 - declare into variable

step 3 - Read value

step 4 - condition ( $i \cdot 1 \cdot 2 = 0$ )

step 5 - print the value

step 6 - END



```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n ,i,p;
7     int a=1;
8     printf("enter the number :");
9     scanf("%d",&n);
10    for(i=1;i<=n;i++)
11    {
12        a=a*i;
13    }
14    printf("%d",a);
15
16 }
17
```

enter the number :5

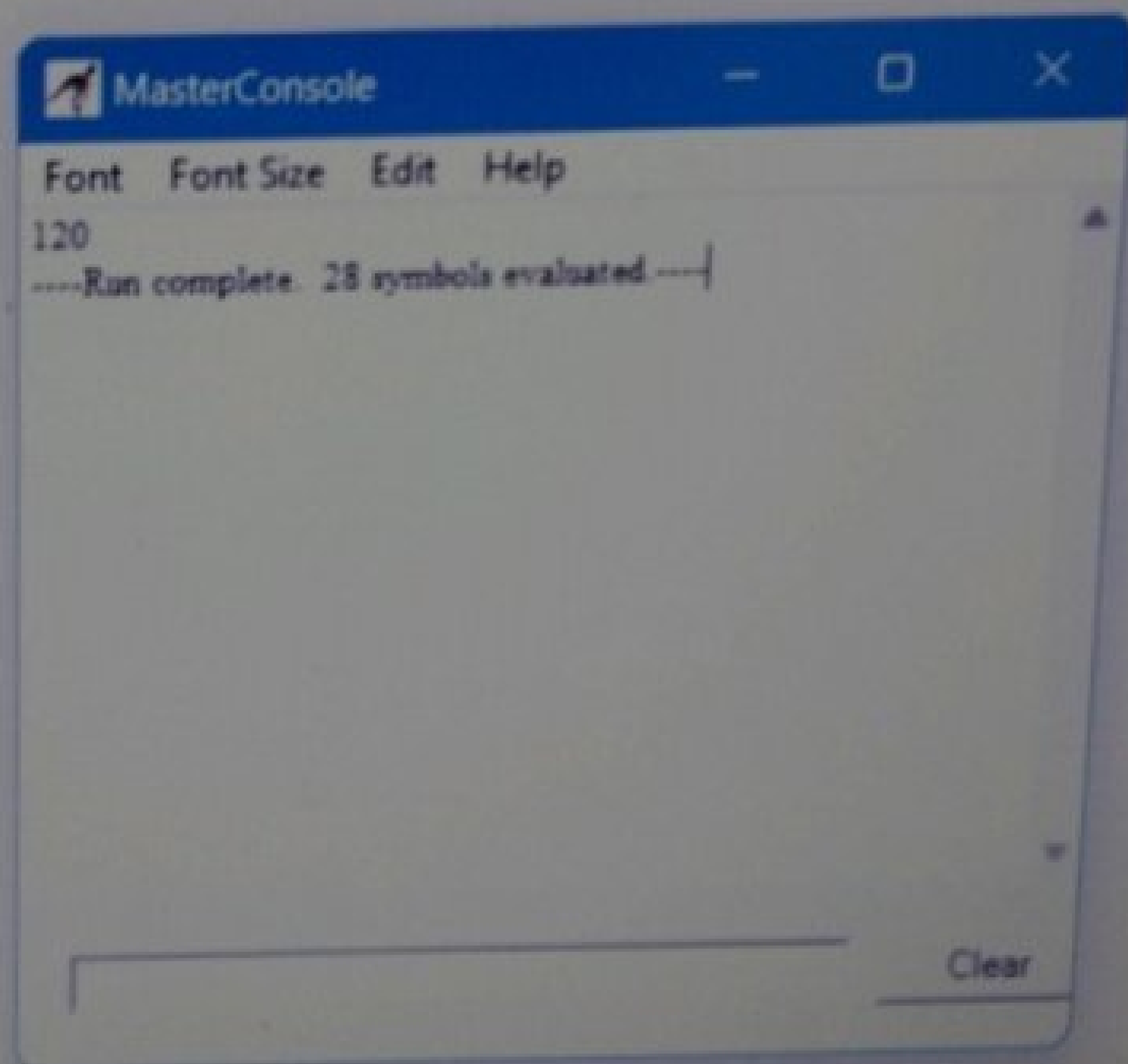
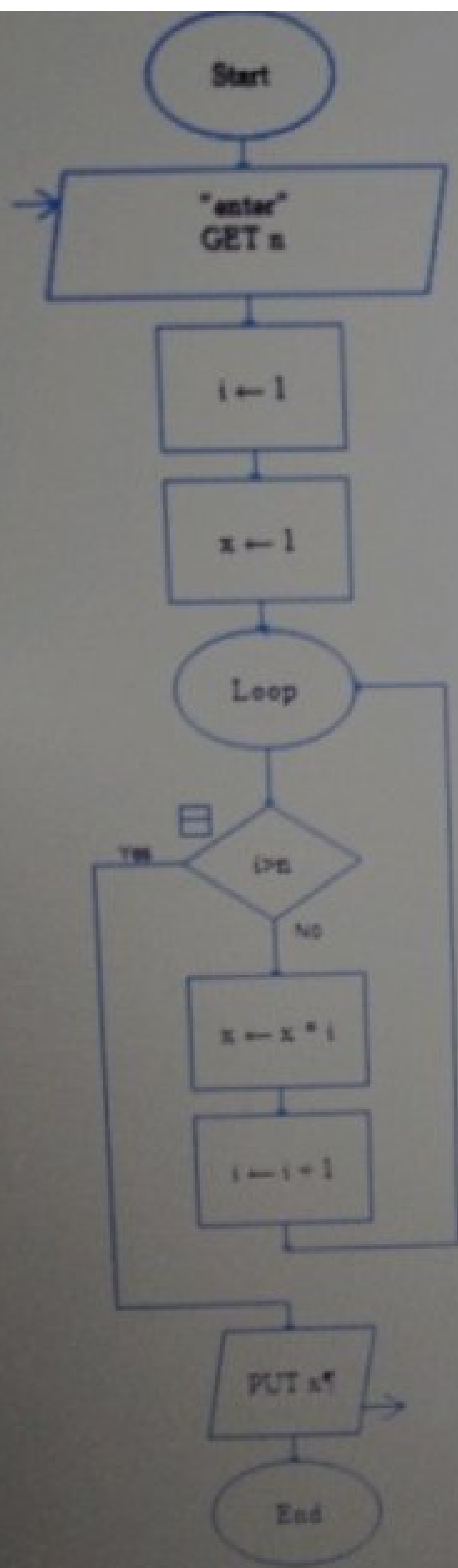
120

...Program finished with exit code 0

Press ENTER to exit console.

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Step 1 - begin

Step 2 - Declare the variable

Step 3 - Start a loop that if from 1 to n

Step 4 - Read the variable

Step 5 - print the values

Step 6 - END

main.c

```
1
2 #include <math.h>
3 #include <stdio.h>
4 int main() {
5     int num, originalNum, remainder, n = 0;
6     float result = 0.0;
7
8     printf("Enter an integer: ");
9     scanf("%d", &num);
10
11     originalNum = num;
12     for (originalNum = num; originalNum != 0; ++n) {
13         originalNum /= 10;
14     }
15     for (originalNum = num; originalNum != 0; originalNum /= 10) {
16         remainder = originalNum % 10;
17         result += pow(remainder, n);
18     }
19     if ((int)result == num)
20         printf("%d is an Armstrong number.", num);
21     else
22         printf("%d is not an Armstrong number.", num);
23     return 0;
24 }
```

Input

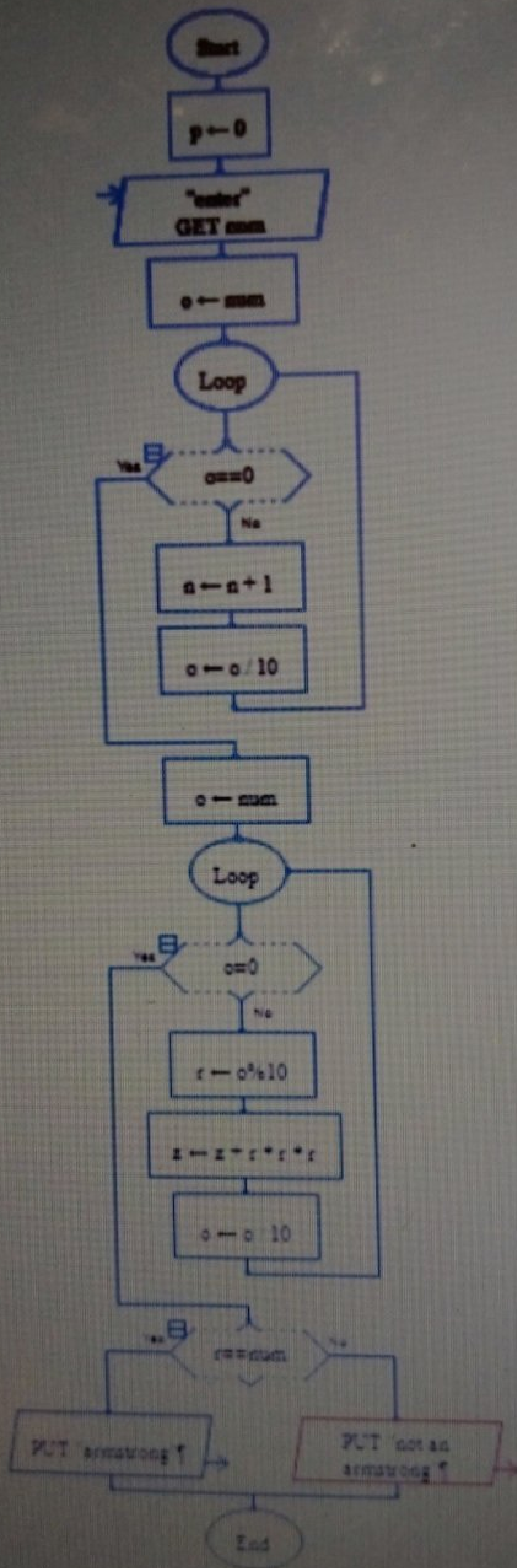
Enter an integer: 4561

4561 is not an Armstrong number.

...Program finished with exit code 0

Press ENTER to exit console.







Step 1 - Begin

Step 2 - declare in the variable

Step 3 - start a loop that from 1 to n

Step 4 - Each

Step 5 - print the values

Step 6 - END

main.c

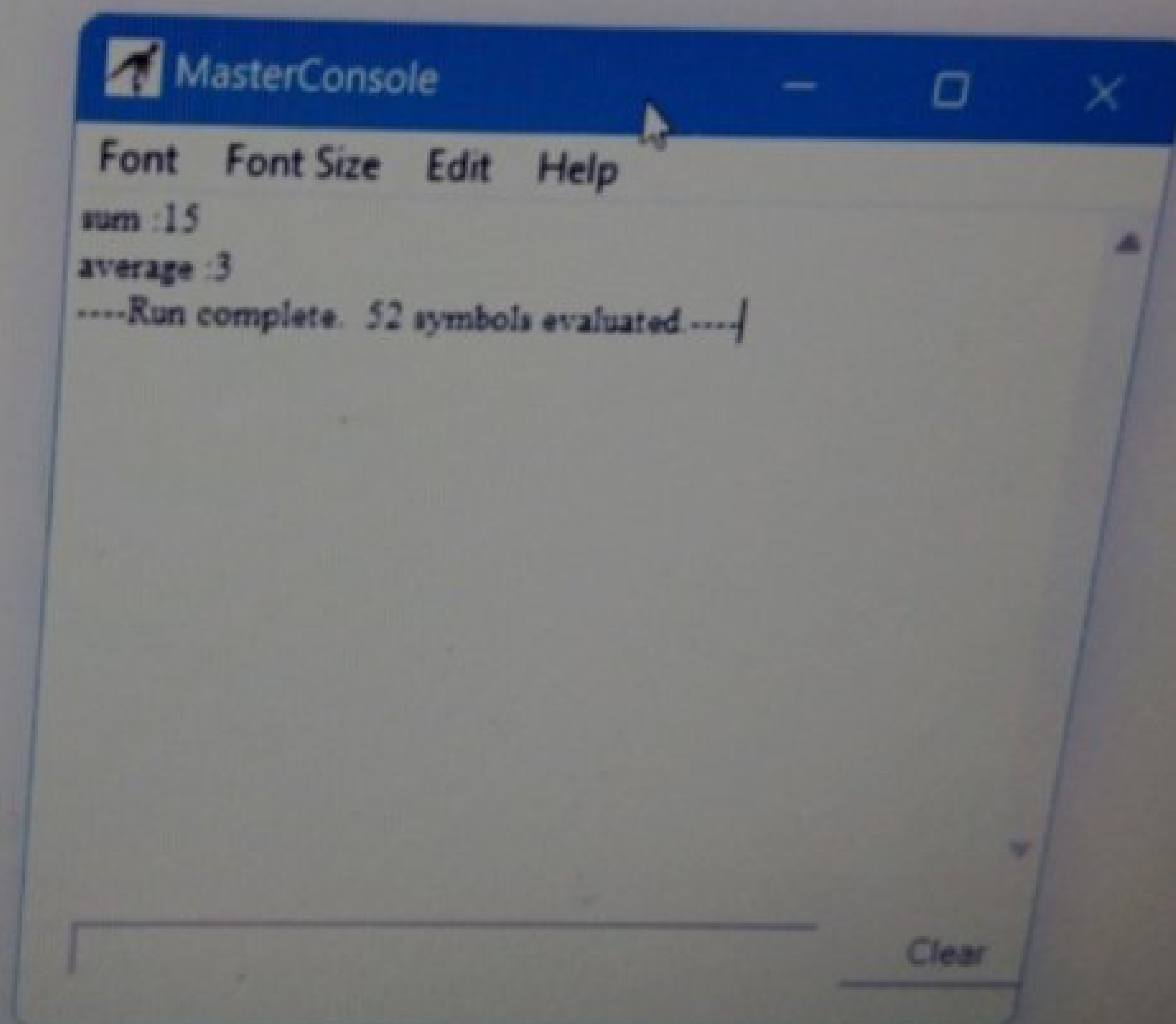
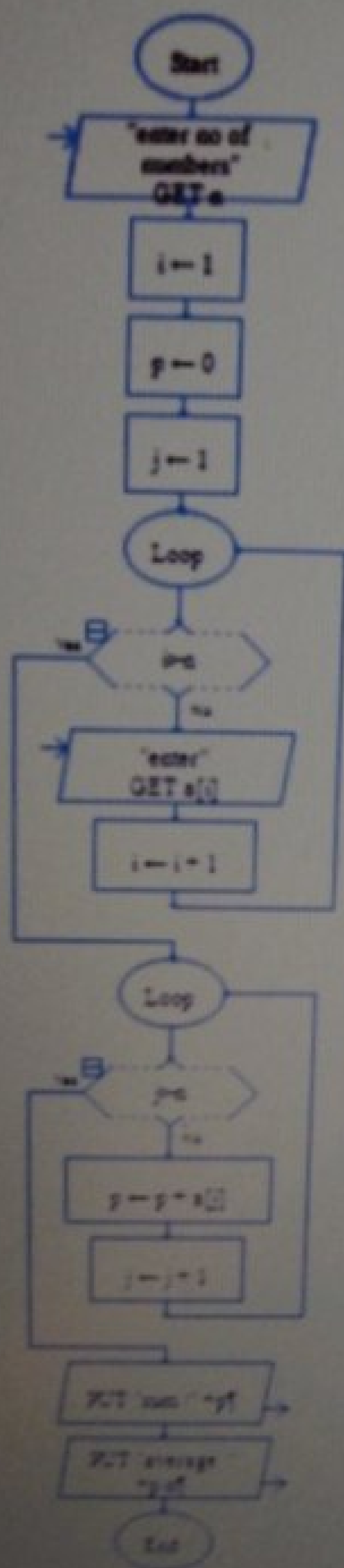
```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,p=0,avg;
7
8     printf("enter no of numbers ::");
9     scanf("%d",&n);
10    int a[n];
11    for (int i=0;i<n;i++)
12    {
13        scanf("%d",&a[i]);
14    }
15    for(int j=0;j<n;j++)
16    {
17        p=p+a[j];
18    }
19    printf("sum of numbers is %d",p);
20    printf("\n average :: %d",p/n);
21
22 }
23
```

enter no of numbers ::5

1  
2  
3  
4  
5

sum of numbers is 15  
average :: 3

input



- Step 1 - Begin
- Step 2 - Declare int variable
- Step 3 - Start a loop that iterates from 2 to n
- Step 4 - In each iteration of the loop check current value of  $i$  is Testing when  $i/2 = 0$
- Step 5 - print the value
- Step 6 - END



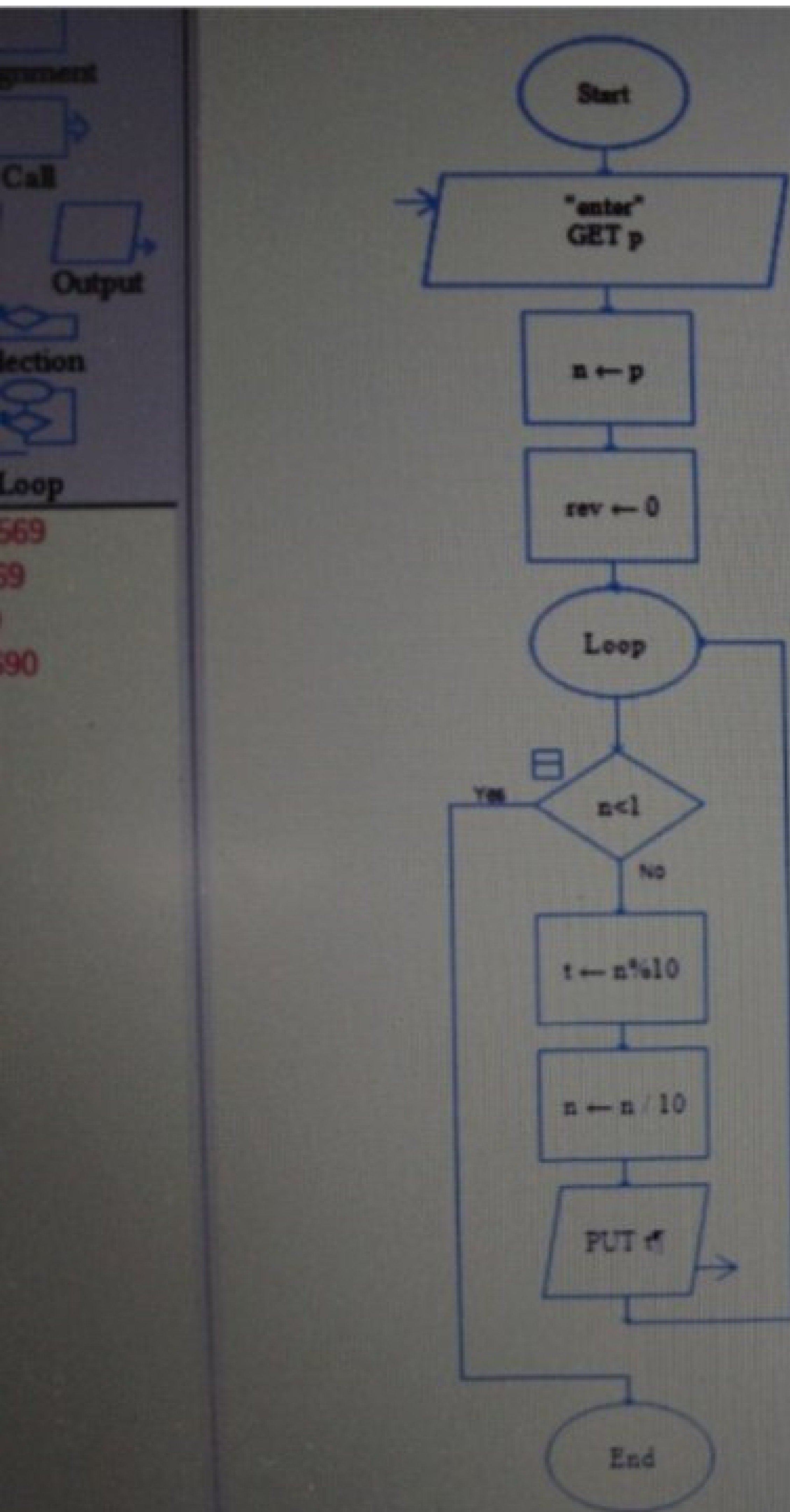
```

1
2  #include <stdio.h>
3
4  void main()
5  {
6      int n, rem, rev=0;
7      printf("enter the number :");
8      scanf("%d", &n);
9      printf("digits of the nnumbers are :");
10     for(int i=0; n>1; i++){
11         rem=n%10;
12         n=n/10;
13         printf(" %d", rem);
14     }
15
16 }
17

```

enter the number :456  
 digits of the nnumbers are : 6 5 4

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



MasterConsole

Font Font Size Edit Help

660.5600

----Run complete. 23 symbols evaluated.----

9

6.9000

5.6900

4.5690

----Run complete. 27 symbols evaluated.----

- Step 3 - start a loop the fact's From 1 to n
- Step 4 - Try each iteration of the loop, checks if the variable.
- Step 5 - print the value
- Step 6 - end



```
1
2  #include <stdio.h>
3
4  void main()
5  {
6      int n,rem,rev=0;
7      printf("enter the number :");
8      scanf("%d",&n);
9      for(int i=0;n>1;i++){
10         rem=n%10;
11         n=n/10;
12         rev=rev+rem;
13     }
14     printf("sum of its digits = %d",rev);
15 }
16
```

enter the number :456  
sum of its digits = 15

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



main

Assignment

Call

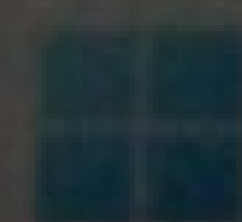
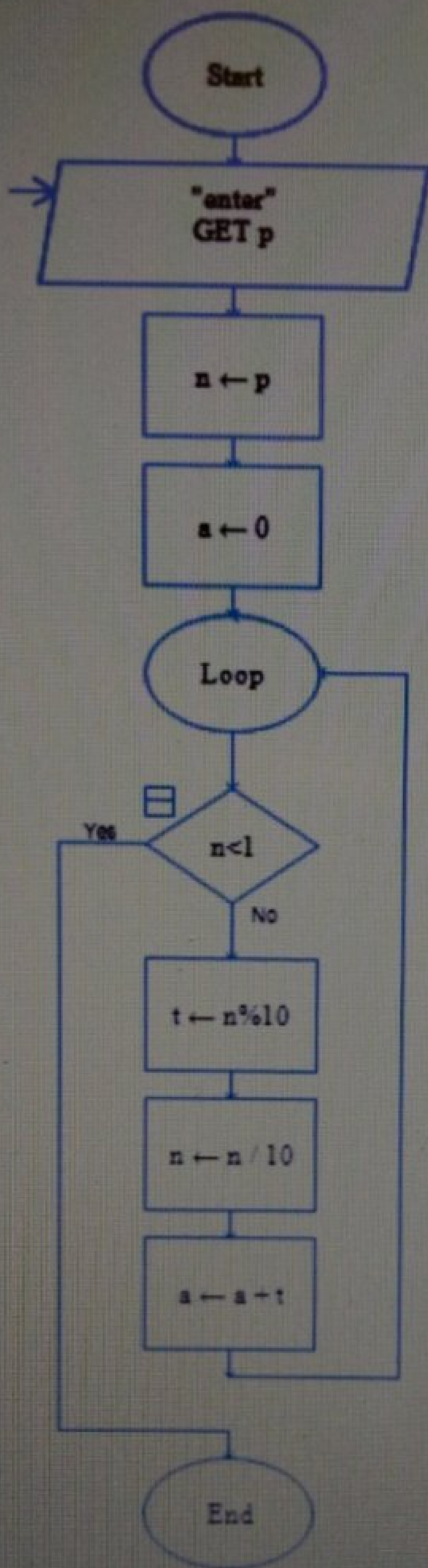
Input

Output

Selection

Loop

n: 0.4560  
p: 456  
rev: 660.5600  
t 4.5600



Search

Step 1 - Begin

Step 2 - declare int variable

Step 3 : Start a loop that iterate from  
1 to n

Step 4 : Multiply by 1 to alternate the sign  
every to other sum.

Step 5 : print the numbers

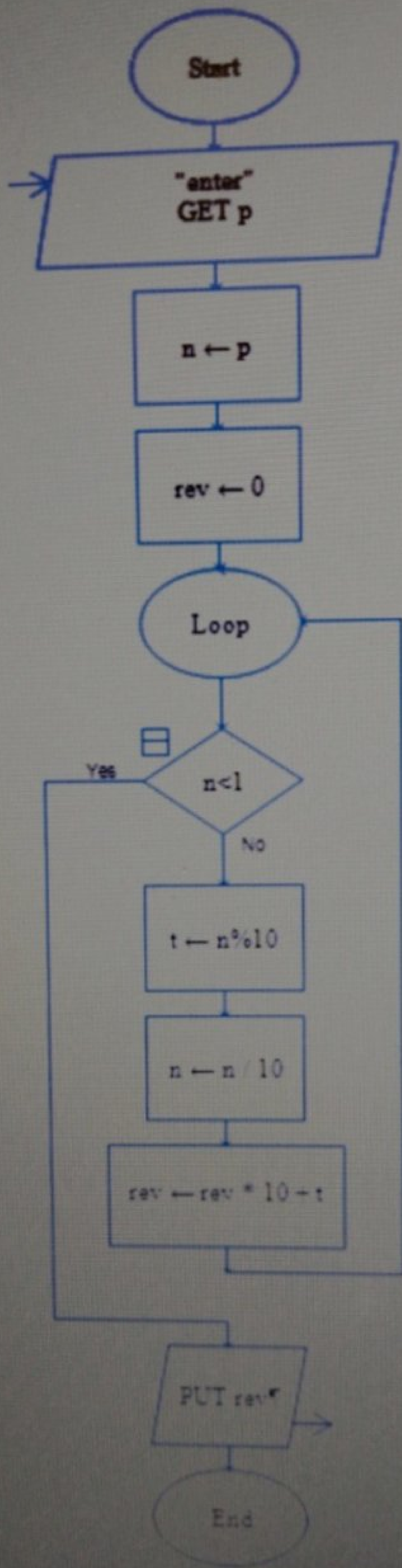
Step 6 : END

```
1
2 #include <stdio.h>
3
4 void main()
5 {
6     int n,rem,rev=0;
7     printf("enter the number :");
8     scanf("%d",&n);
9     printf("reverse number is :");
10    for(int i=0;n>1;i++){
11        rem=n%10;
12        n=n/10;
13        printf("%d",rem);
14    }
15
16 }
17
```

enter the number :1235564  
reverse number is :465532

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







Step 1 - begin

Step 2 - declare the variable sum = 1

Step 3 - start a loop that continues while  
i is less than (or) equal to 'n'

Step 4 - with the loop add i to sum.

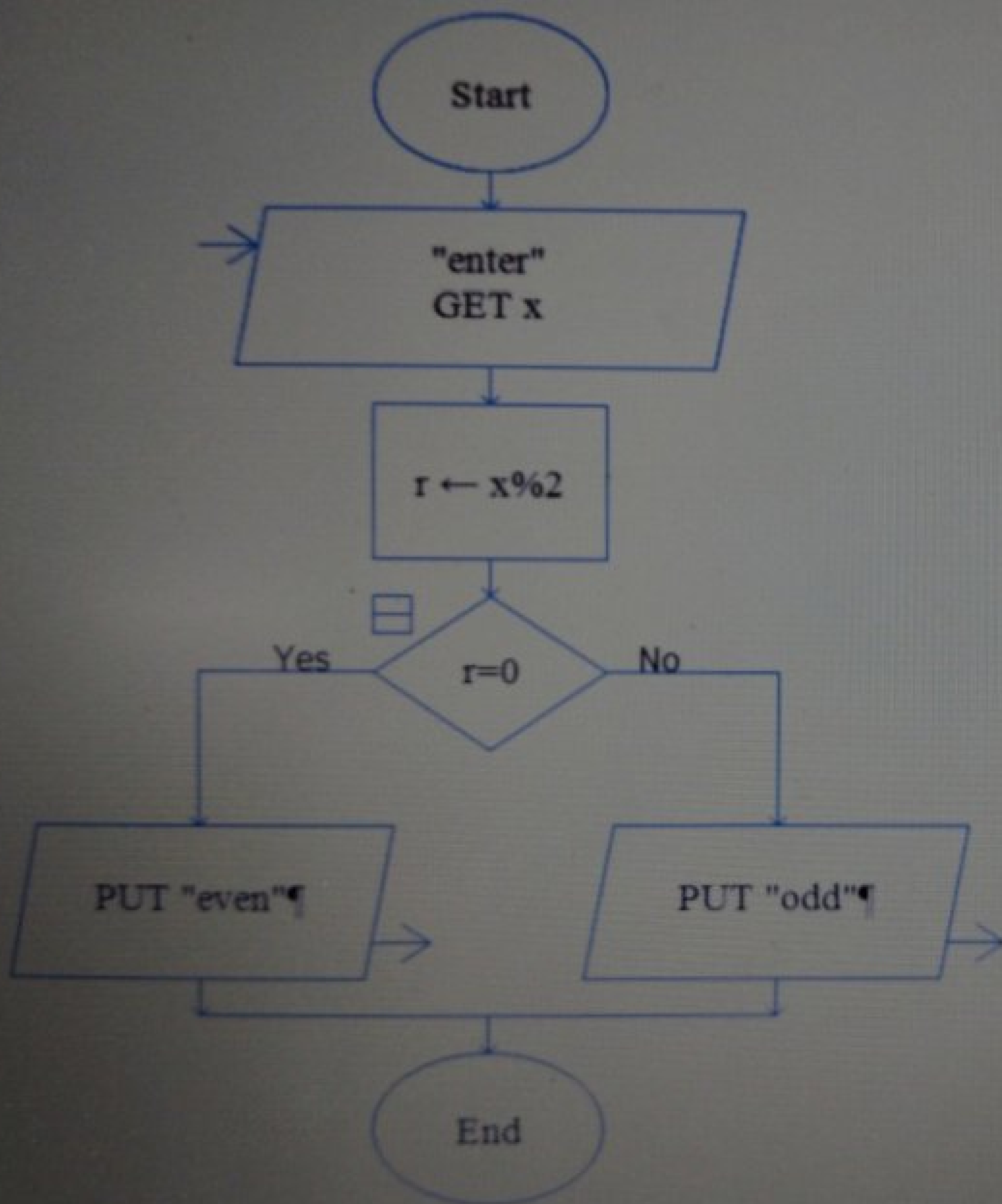
Step 5 - print the numbers

Step 6 - END

```
main.c
1  #include <stdio.h>
2
3
4  void main()
5  {
6      int n;
7      printf("enter the number :");
8      scanf("%d",&n);
9      if(n%2==0)
10     {
11         printf("the given number is even");
12     }
13     else
14     {
15         printf("the given number is odd");
16     }
17 }
18
19
```

enter the number :5  
the given number is odd

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



The screenshot shows a window titled 'MasterConsole' with a menu bar containing 'Font', 'Font Size', 'Edit', and 'Help'. The main text area displays the word 'odd' on the first line, followed by a status message: '----Run complete. 6 symbols evaluated.----'. At the bottom right of the window is a 'Clear' button.

Step 1 ÷ Begin

Step 2 ÷ initialize available sum to 0

Step 3 ÷ loop through all even numbers starting  
from 2 upto n.

Step 4 ÷ For each even number square it  
get the next term.

Step 5 ÷ Return the sum variable as the final  
answer.

Step 6 ÷ Print the Numbers

Step 7 ÷ END

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