



# The drumbeats of festival (print 1 to n)


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

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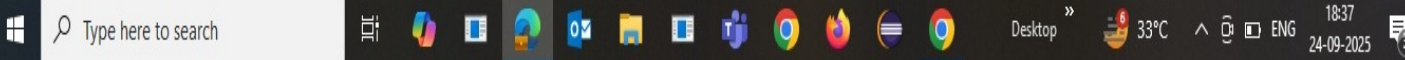
**main.c**    **Run** **Output** 

```
1 #include <stdio.h>
2
3 void printBeats(int current, int n) {
4     if (current > n)
5         return;
6     printf("%d ", current);
7     printBeats(current + 1, n);
8 }
9
10 int main() {
11     int n;
12     printf("Enter number of beats: ");
13     scanf("%d", &n);
14     if (n < 1 || n > 1000) {
15         printf("Invalid input. n must be between 1 and 1000.\n");
16         return 1;
17     }
18     printBeats(1, n);
19
20     return 0;
21 }
22
```

Enter number of beats: 5  
1 2 3 4 5

=== Code Execution Successful ===

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# The echo in the cave (print n to 1)

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main.c

```
1 #include <stdio.h>
2
3 void printEcho(int n) {
4     if (n < 1)
5         return;
6
7     printf("%d ", n);
8     printEcho(n - 1);
9 }
10
11 int main() {
12     int n;
13     printf("Enter number for the echo: ");
14     scanf("%d", &n);
15     if (n < 1 || n > 1000) {
16         printf("Invalid input. n must be between 1 and 1000.\n");
17         return 1;
18     }
19     printEcho(n);
20
21     return 0;
22 }
```

Output

```
Enter number for the echo: 5
5 4 3 2 1

=== Code Execution Successful ===
```

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# The king's treasury ( sum of first n numbers)

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22 → 4 → 43 → none

main.c

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Run

Output

Clear

```
1 #include <stdio.h>
2 int sum(int n) {
3     if (n == 1) {
4         return 1; // Base case
5     } else {
6         return n + sum(n - 1); // Recursive case
7     }
8 }
9
10 int main() {
11     int n;
12     printf("Enter the number of treasure chests (n): ");
13     scanf("%d", &n);
14     if (n < 1 || n > 10000) {
15         printf("Error: n must be between 1 and 10000.\n");
16         return 1;
17     }
18     int totalCoins = sum(n);
19     printf("Total coins in all chests: %d\n", totalCoins);
20
21     return 0;
22 }
```

Enter the number of treasure chests (n): 5

Total coins in all chests: 15

=== Code Execution Successful ===

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# The wizard's mirror ( reverse string)

The screenshot displays the Programiz C Online Compiler interface. The browser address bar shows the URL <https://www.programiz.com/c-programming/online-compiler/>. The page header includes the Programiz logo, a banner for 'Programiz PRO' with the text 'Never struggle with DSA again. Learn with interactive visuals', and buttons for 'Try Now' and 'Programiz PRO >'. The main editor area is titled 'main.c' and contains the following C code:

```
1 #include <stdio.h>
2 #include <string.h>
3 void reverseString(char s[], int start, int end) {
4     if (start >= end) {
5         return; // Base case
6     }
7     char temp = s[start];
8     s[start] = s[end];
9     s[end] = temp;
10    reverseString(s, start + 1, end - 1);
11 }
12
13 int main() {
14     char s[101];
15     printf("Enter a word to reverse (max 100 characters): ");
16     scanf("%100s", s);
17     int len = strlen(s);
18     reverseString(s, 0, len - 1);
19     printf("Reversed string: %s\n", s);
20
21     return 0;
22 }
```

The 'Run' button has been clicked, and the output is displayed on the right side of the editor:

```
Enter a word to reverse (max 100 characters): hello
Reversed string: olleh

=== Code Execution Successful ===
```

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray information including the date and time (18:49, 24-09-2025).

# The treasure boxes ( sum of array)

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main.c

Share

Run

```
1 #include <stdio.h>
2 int sumArray(int coins[], int n) {
3     if (n == 0) {
4         return 0; // Base case
5     } else {
6         return coins[n - 1] + sumArray(coins, n - 1);
7     }
8 }
9 int main() {
10     int n;
11     int coins[100];
12     printf("Enter the number of treasure boxes: ");
13     scanf("%d", &n);
14     if (n < 1 || n > 100) {
15         printf("Error: n must be between 1 and 100.\n");
16         return 1;
17     }
18     printf("Enter the coins in each box:\n");
19     for (int i = 0; i < n; i++) {
20         scanf("%d", &coins[i]);
21         if (coins[i] < 1 || coins[i] > 1000) {
22             printf("Error: Each coin count must be between 1 and
```

Output

Clear

Enter the number of treasure boxes: 5  
Enter the coins in each box:  
2 5 3 8 6  
Total coins: 24  
  
=== Code Execution Successful ===

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# The Traveller's steps( climbing stairs)

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main.c

Share

Run

Output

Clear

```
1 #include <stdio.h>
2 int climbStairs(int n) {
3     if (n == 0 || n == 1) {
4         return 1;
5     } else {
6         return climbStairs(n - 1) + climbStairs(n - 2);
7     }
8 }
9 int main() {
10     int n;
11     printf("Enter the number of magical steps: ");
12     scanf("%d", &n);
13     if (n < 1 || n > 30) {
14         printf("Error: n must be between 1 and 30.\n");
15         return 1;
16     }
17     int ways = climbStairs(n);
18     printf("Number of ways to climb: %d\n", ways);
19
20     return 0;
21 }
22
```

Enter the number of magical steps: 3  
Number of ways to climb: 3

=== Code Execution Successful ===

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# The Princess's lock (factorial)

The screenshot shows the Programiz C Online Compiler interface. The browser address bar displays <https://www.programiz.com/c-programming/online-compiler/>. The page header includes the Programiz logo, a banner for Programiz PRO with the text "Never struggle with DSA again. Learn with interactive visuals", and buttons for "Try Now" and "Programiz PRO".

The main editor area is titled "main.c" and contains the following C code:

```
1 #include <stdio.h>
2 int factorial(int n) {
3     if (n == 0 || n == 1) {
4         return 1; // Base case
5     } else {
6         return n * factorial(n - 1); // Recursive case
7     }
8 }
9 int main() {
10     int n;
11     printf("Enter the number of magical locks: ");
12     scanf("%d", &n);
13     if (n < 1 || n > 12) {
14         printf("Error: n must be between 1 and 12.\n");
15         return 1;
16     }
17     int result = factorial(n);
18     printf("Number of ways to unlock: %d\n", result);
19
20     return 0;
21 }
```

The "Output" panel on the right shows the execution results:

```
Enter the number of magical locks: 4
Number of ways to unlock: 24

=== Code Execution Successful ===
```

At the bottom of the screen, the Windows taskbar is visible, showing the search bar, taskbar icons, and system tray information including the date and time (18:59, 24-09-2025).

# The Rabbit's family( fibonacci)

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main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 int fibonacci(int n) {
3     if (n == 1 || n == 2) {
4         return 1; // Base cases
5     } else {
6         return fibonacci(n - 1) + fibonacci(n - 2); // Recursive case
7     }
8 }
9 int main() {
10     int n;
11     printf("Enter the month number (1 to 40): ");
12     scanf("%d", &n);
13     if (n < 1 || n > 40) {
14         printf("Error: n must be between 1 and 40.\n");
15         return 1;
16     }
17     int rabbits = fibonacci(n);
18     printf("Number of rabbits after %d month(s): %d\n", n, rabbits);
19
20     return 0;
21 }
```

Enter the month number (1 to 40): 6

Number of rabbits after 6 month(s): 8

=== Code Execution Successful ===

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