

main.c



Share

Run

```
1 #include <stdio.h>
2
3 int main() {
4     int n = 5;
5     for (int i = 1; i <= n; ++i) {
6         for (int j = 1; j <= n - i; ++j) {
7             printf(" ");
8         }
9         for (int k = n - i + 1; k <= n; ++k) {
10            printf("%d", k);
11        }
12        printf("\n");
13    }
14    return 0;
15 }
```

Output

Clear

```
5
45
345
2345
12345
```

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Output

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```
1  #include <stdio.h>
2
3  void printStars(int n) {
4      for (int i = 0; i < n; i++) {
5          printf("*\n");
6      }
7  }
8
9  int main() {
10     printStars(1);
11     printf("\n");
12     printStars(3);
13     printf("\n");
14     printStars(5);
15     printf("\n");
16     printStars(3);
17     printf("\n");
18     printStars(1);
19
20     return 0;
21 }
22
23
```

```
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*
*
*
*
*
*
```

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Output

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```
1  #include <stdio.h>
2
3  void printStarLine(int n) {
4      for (int i = 0; i < n; i++) {
5          printf("*");
6      }
7      printf("\n");
8  }
9
10 int main() {
11     printStarLine(1);
12     printStarLine(3);
13     printStarLine(5);
14     printStarLine(7);
15     printStarLine(9);
16     printStarLine(7);
17     printStarLine(5);
18     printStarLine(3);
19     printStarLine(1);
20
21     return 0;
22 }
23
```

```
*
***
*****
*****
*****
*****
*****
***
*
```

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```
1  #include <stdio.h>
2
3  void printCenteredStarLine(int n, int max) {
4      int spaces = (max - n) / 2;
5      for (int i = 0; i < spaces; i++) {
6          printf(" ");
7      }
8      for (int i = 0; i < n; i++) {
9          printf("*");
10     }
11     printf("\n");
12 }
13
14 int main() {
15     int maxWidth = 7;
16     printCenteredStarLine(1, maxWidth);
17     printCenteredStarLine(3, maxWidth);
18     printCenteredStarLine(5, maxWidth);
19     printCenteredStarLine(7, maxWidth);
20     printCenteredStarLine(5, maxWidth);
21     printCenteredStarLine(3, maxWidth);
22     printCenteredStarLine(1, maxWidth);
23
24     return 0;
25 }
```

*

*

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```
1  #include <stdio.h>
2
3  int isPrime(int num) {
4      if (num <= 1) {
5          return 0;
6      }
7      for (int i = 2; i * i <= num; i++) {
8          if (num % i == 0) {
9              return 0;
10         }
11     }
12     return 1;
13 }
14
15 int main() {
16     int n;
17
18     printf("Enter the value of n: ");
19     scanf("%d", &n);
20
21     printf("Prime numbers from 1 to %d are:\n", n);
22
23     for (int i = 1; i <= n; i++) {
24         if (isPrime(i)) {
25             printf("%d ", i);
26         }
```

Enter the value of n: 2 3 5 7 11 13 17 19 23 29
Prime numbers from 1 to 2 are:
2

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```
1  #include <stdio.h>
2
3  int main() {
4      int arr[100];
5      int n, i;
6
7      printf("Enter the number of elements (up to 100): ");
8      scanf("%d", &n);
9
10     if (n > 100 || n <= 0) {
11         printf("Invalid size. Please enter a number between 1 and
           100.\n");
12         return 1;
13     }
14
15     printf("Enter %d elements:\n", n);
16     for (i = 0; i < n; i++) {
17         printf("Element %d: ", i + 1);
18         scanf("%d", &arr[i]);
19     }
20
21     printf("\nThe elements you entered are:\n");
22     for (i = 0; i < n; i++) {
23         printf("%d ", arr[i]);
24     }
25     printf("\n");
```

Enter the number of elements (up to 100): 5

Enter 5 elements:

Element 1: 10

Element 2: -3

Element 3: 0

Element 4: 88

Element 5: 123

The elements you entered are:

10 -3 0 88 123

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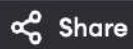
Clear

```
1  #include <stdio.h>
2
3  int main() {
4      int n, i, sum = 0;
5      printf("Enter number of elements: ");
6      scanf("%d", &n);
7
8      int arr[n];
9      printf("Enter array elements: ");
10     for(i = 0; i < n; i++) {
11         scanf("%d", &arr[i]);
12         sum += arr[i];
13     }
14
15     printf("Sum of array elements = %d", sum);
16     return 0;
17 }
18
```

```
Enter number of elements: 5
Enter array elements: 2 4 6 8 10
Sum of array elements = 30
```

```
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Output

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```
4  int n, i;
5  printf("Enter number of elements: ");
6  scanf("%d", &n);
7
8  int arr[n];
9  printf("Enter array elements: ");
10 for (i = 0; i < n; i++) {
11     scanf("%d", &arr[i]);
12 }
13
14 int max = arr[0];
15 int min = arr[0];
16
17 for (i = 1; i < n; i++) {
18     if (arr[i] > max)
19         max = arr[i];
20     if (arr[i] < min)
21         min = arr[i];
22 }
23
24 printf("Maximum element = %d\n", max);
25 printf("Minimum element = %d\n", min);
26
27 return 0;
28 }
29
```

```
Enter number of elements: 5
Enter array elements: 10 25 3 40 18
Maximum element = 40
Minimum element = 3
```

```
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```


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Output

Clear

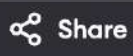
```
2
3 int main() {
4     int n, i, even = 0, odd = 0;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     int arr[n];
10    printf("Enter array elements: ");
11    for (i = 0; i < n; i++) {
12        scanf("%d", &arr[i]);
13    }
14
15    for (i = 0; i < n; i++) {
16        if (arr[i] % 2 == 0)
17            even++;
18        else
19            odd++;
20    }
21
22    printf("\nCount of even numbers = %d", even);
23    printf("\nCount of odd numbers = %d", odd);
24
25    return 0;
26 }
```

```
Enter number of elements: 6
Enter array elements: 12 7 9 14 22 5

Count of even numbers = 3
Count of odd numbers = 3

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```

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Run

Output

Clear

```
1  #include <stdio.h>
2
3  int main() {
4      int n, i, positive = 0, negative = 0, zero = 0;
5
6      printf("Enter number of elements: ");
7      scanf("%d", &n);
8
9      int arr[n];
10     printf("Enter array elements: ");
11     for (i = 0; i < n; i++) {
12         scanf("%d", &arr[i]);
13     }
14
15     for (i = 0; i < n; i++) {
16         if (arr[i] > 0)
17             positive++;
18         else if (arr[i] < 0)
19             negative++;
20         else
21             zero++;
22     }
23
24     printf("\nCount of positive numbers = %d", positive);
25     printf("\nCount of negative numbers = %d", negative);
26     printf("\nCount of zeros = %d", zero);
```

```
Enter number of elements: 6
Enter array elements: 5 -3 0 8 -1 0

Count of positive numbers = 2
Count of negative numbers = 2
Count of zeros = 2

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