PATTERN PRINTING PROGRAMS

104 CPPM
PATTERN PRINTING PROGRAMS

SR NO	PROGRAM CODE	PATTERN

1	```void main()```
	```{```
	   ```int i,j,n;```
	
	   ```printf("\n Enter N: ");```
	   ```scanf("%d",&n);```
	
	   ```for (i=1; i<=n; i++) {```
	
	     ```for (j=1; j<=n; j++) {```
	
	       ```printf("*");```
	     ```}```
	     ```printf("\n");```
	   ```}```
	```}```
		***
		***
		***

2	```void main()```
	```{```
	   ```int i,j,n;```
	
	   ```printf("\n Enter N: ");```
	   ```scanf("%d",&n);```
	
	   ```for (i=1; i<=n; i++) {```
	
	     ```for (j=1; j<=n; j++) {```
	
	       ```printf("%d",j);```
	     ```}```
	     ```printf("\n");```
	   ```}```
	```}```
		123
		123
		123

3	```void main()```
	```{```
	   ```int i,j,n;```
	
	   ```printf("\n Enter N: ");```
	   ```scanf("%d",&n);```
	
	   ```for (i=1; i<=n; i++) {```
		111
		222
		333

| | ```
    for (j=1; j<=n; j++) {

        printf("%d",i);
    }
    printf("\n");
  }
}
``` | |
| 4 | ```
void main()
{
   int i,j,n;

   printf("\n Enter N: ");
   scanf("%d",&n);

   for (i=1; i<=n; i++) {

      for (j=1; j<=i; j++) {

         printf("*");
      }
      printf("\n");
   }
}
``` | ```
*
**
***
****
*****
``` |
| 5 | ```
void main()
{
   int i,j,n;

   printf("\n Enter N: ");
   scanf("%d",&n);

   for (i=1; i<=n; i++) {

      for (j=1; j<=i; j++) {

         printf("%d",j);
      }
      printf("\n");
   }
}
``` | ```
1
12
123
1234
12345
``` |
| 6 | ```
void main()
{
   int i,j,n;

   printf("\n Enter N: ");
``` | ```
1
22
333
4444
55555
``` |

PATTERN PRINTING PROGRAMS

	``scanf("%d",&n);

for (i=1; i<=n; i++) {

    for (j=1; j<=i; j++) {

        printf("%d",i);
    }
    printf("\n");
}
}``` | |
| 7 | ```void main()
{
    int i,j,n,number=1;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (j=1; j<=i; j++) {

            printf("%d",number);
            number++;
        }
        printf("\n");
    }
}``` | 1
23
456 |
| 8 | ```void main()
{
    int i,j,n;
    char ch='A';

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (j=1; j<=i; j++) {

            printf("%c",ch);
            ch++;
        }
        printf("\n");
    }``` | A
BC
DEF
GHIJ |

	`}`	
| 9 | ```c
void main()
{
    int i,j,n;
    char ch='A';

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (j=1; j<=i; j++) {

            printf("%c",ch);
        }
        ch++;
        printf("\n");
    }
}
``` | A<br>BB<br>CCC<br>DDDD<br>EEEEE |
| 10 | ```c
void main()
{
    int i,j,n;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (j=1; j<=i; j++) {

            if (j % 2 == 0) {
                printf("*");
            }
            else
            {
                printf("#");
            }
        }

        printf("\n");
    }
}
``` | #<br># *<br># * #<br># * # *<br># * # * # |

| 11 | ```c
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (space=1; space<=(n-i); space++) {
            printf(" ");
        }

        for (j=1; j<=i; j++) {
            printf("*");
        }
        printf("\n");
    }
}
``` | ``` 
    *
   **
  ***
 ****
*****
``` |
|---|---|---|
| 12 | ```c
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (space=1; space<=(n-i); space++) {
            printf(" ");
        }

        for (j=1; j<=i; j++) {
            printf("%d",j);
        }
        printf("\n");
    }
}
``` | ```
    1
   12
  123
 1234
12345
``` |
| 13 | ```c
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);
``` | ```
   1
  22
 333
4444
``` |

| | ```
for (i=1; i<=n; i++) {

   for (space=1; space<=(n-i); space++) {
      printf(" ");
   }

   for (j=1; j<=i; j++) {
      printf("%d",i);
   }
   printf("\n");
  }
}
``` | 55555 |
| 14 | ```
void main()
{
   int i,j,n,space;

   printf("\n Enter N: ");
   scanf("%d",&n);

   for (i=n; i>=1; i--) {

      for (j=1; j<=i; j++) {
         printf("*");
      }
      printf("\n");
   }
}
``` | \*\*\*\*\*<br><br>\*\*\*\*<br><br>\*\*\*<br><br>\*\*<br><br>\* |
| 15 | ```
void main()
{
   int i,j,n,space;

   printf("\n Enter N: ");
   scanf("%d",&n);

   for (i=n; i>=1; i--) {

      for (j=1; j<=i; j++) {
         printf("%d",j);
      }
      printf("\n");
   }
}
``` | 12345<br><br>1234<br><br>123<br><br>12<br><br>1 |

| 16 | ```c
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=n; i>=1; i--) {

        for (j=1; j<=i; j++) {
            printf("%d",i);
        }
        printf("\n");
    }
}
``` | 55555<br><br>4444<br><br>333<br><br>22<br><br>1 |
|----|----|----|
| 17 | ```c
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (space=1; space<=(n-i); space++) {
            printf(" ");
        }

        for (j=1; j<=i; j++) {
            printf("* "); // add space after *
        }
        printf("\n");
    }
}
``` | ```
    *
   * *
  * * *
 * * * *
* * * * *
``` |
| 18 | ```c
void main()
{
    int i,j,n,space,number=1;

    printf("\n Enter N: ");
    scanf("%d",&n);

    for (i=1; i<=n; i++) {

        for (space=1; space<=(n-i); space++) {
``` | ```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
``` |

| | ```
        printf(" ");
        }

    for (j=1; j<=i; j++) {
        printf("%d ",j); // add space after *
        }
    printf("\n");
    }
}
``` | |
| 19 | ```
void main()
{
    int i,j,n,space;

    printf("\n Enter N: ");
    scanf("%d",&n);


    for (i=n; i>=1; i--) {

        for (space=1; space<=(n-i); space++) {
            printf(" ");
        }

        for (j=1; j<=i; j++) {
            printf("* "); // add space after *
        }
        printf("\n");
    }

}
``` | ```
* * * * *

 * * * *

  * * *

   * *

    *
``` |
| 20 | ```
void main()
 {
    int i,j,n,space,number=1;

    printf("\n Enter N: ");
    scanf("%d",&n);


    for (i=n-1; i>=1; i--) {

        for (space=1; space<=(n-i); space++) {
            printf(" ");
        }

        for (j=1; j<=i; j++) {
``` | ```
4 4 4 4

3 3 3

2 2

1
``` |

	``c
	        printf("%d ",i); // add space after *
	      }
	      printf("\n");
	    }
	
	  }
	``	

21	```c
	void main()
	{
	  int i,j,n,space;
	
	  printf("\n Enter N: ");
	  scanf("%d",&n);
	
	  for (i=1; i<=n; i++) {
	
	    for (space=1; space<=(n-i); space++) {
	      printf(" ");
	    }
	
	    for (j=1; j<=i; j++) {
	      printf("* "); // add space after *
	    }
	    printf("\n");
	  }
	
	  for (i=n-1; i>=1; i--) {
	
	    for (space=1; space<=(n-i); space++) {
	      printf(" ");
	    }
	
	    for (j=1; j<=i; j++) {
	      printf("* "); // add space after *
	    }
	    printf("\n");
	  }
	
	}
	``
		``
		   *
		  * *
		 * * *
		* * * *
		 * * *
		  * *
		   *
		``

22	```c
	#include <stdio.h>
	
	void main()
	{
	  int i,j,n,space,number=1;
	
	  printf("\n Enter N: ");
	``
		``
		  1
		 2 2
		3 3 3
		 2 2
		``

<table>
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```c
scanf("%d",&n);

for (i=1; i<=n; i++) {

    for (space=1; space<=(n-i); space++) {
        printf(" ");
    }

    for (j=1; j<=i; j++) {
        printf("%d ",i); // add space after *
    }
    printf("\n");
}

for (i=n-1; i>=1; i--) {

    for (space=1; space<=(n-i); space++) {
        printf(" ");
    }

    for (j=1; j<=i; j++) {
        printf("%d ",i); // add space after *
    }
    printf("\n");
}

}
```

</td><td>1</td></tr>
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