

**Q. Write a program to print:**

**111111**

**11111**

**1111**

**111**

**11**

**1**

**Method: 1 (using  $(10^n-1)/9$  )**

```
#include<stdio.h>
```

```
#include<math.h>
```

```
int main(){
```

```
    int n = 5;
```

```
    for (int i = n; i > 0; i--){
```

```
        printf("%d\n", (int) (pow(10,i)-1)/9 );
```

```
    }
```

```
    return 0;
```

```
}
```

## Method: 2 (using nested for loop)

```
#include<stdio.h>
```

```
int main(){  
    for (int i = 0; i <= 5; i++){  
        for (int j = 0; j <= 5 - i; j++){  
            printf("1");  
        }  
        printf("\n");  
    }  
  
    return 0;  
}
```

### Method:3 (Using while loop)

```
#include<stdio.h>
```

```
int main(){
```

```
    int i = 0;
```

```
    while (i < 5){
```

```
        int j = 0;
```

```
        while (j < 5-i){
```

```
            printf("1");
```

```
            j++;
```

```
        }
```

```
        printf("\n");
```

```
        i++;
```

```
    }
```

```
    return 0;
```

```
}
```

#### Method: 4 (Using do while loop)

```
#include<stdio.h>
```

```
int main(){  
    int i = 0;  
    do{  
        int j = 0;  
        do{  
            printf("1");  
            j++;  
        } while(j < 5-i);  
        printf("\n");  
        i++;  
    } while(i < 5);  
  
    return 0;  
}
```