

```
/*
```

A5. Write a C program to print alphabet triangle.

Input: 5

Output:

A

ABA

ABCBA

ABCD CBA

ABCDEDCBA

1

121

12321

1234321

123454321

```
*/
```

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

```
void alphaTri(int n)
```

```
{
```

```
    for (int i = 1; i <= n; i++)
```

```
    {
```

```
        for (int j = 1; j <= n - i; j++)
```

```
        {
```

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

```
for (char ch = 'A'; ch < 'A' + i; ch++)  
{  
    printf("%c", ch);  
}
```

```
for (char ch = 'A' + i - 2; ch >= 'A'; ch--)  
{  
    printf("%c", ch);  
}  
printf("\n");  
}  
}
```

```
void numTri(int n)  
{  
    for (int i = 1; i <= n; i++)  
    {  
        for (int j = 1; j <= n - i; j++)  
        {  
            printf(" ");  
        }  
    }
```

```
    for (int j = 1; j <= i; j++)  
    {  
        printf("%d", j);
```

```
}
```

```
for (int j = i - 1; j >= 1; j--)
```

```
{
```

```
    printf("%d", j);
```

```
}
```

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

```
}
```

```
}
```

```
int main()
```

```
{
```

```
    int n;
```

```
    printf("\nEnter the number of rows: ");
```

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

```
    printf("\nAlphabet Triangle:\n");
```

```
    alphaTri(n);
```

```
    printf("\nNumber Triangle:\n");
```

```
    numTri(n);
```

```
    return 0;
```

```
}
```