Problem statement

Print Pascal's Triangle:-Write a program to generate and print the first n rows of Pascal's triangle without using built-in math orarray functions. For n = 5, the output should be:

Solution

```
#include <stdio.h>
int main()
{
  int n;
  printf("enter the value for n ");
  scanf("%d",&n);
  for (int i = 0; i < n; i++)
  {
  for (int k = 0; k < n - i - 1; k++)
  {
  printf(" ");
  }
  int value = 1;
  for (int j = 0; j \le i; j++)
  {
  printf("%d ", value);
  value = value * (i - j) / (j + 1);
  printf("\n");
  }return 0;
}
```

Outputs

```
enter the value for n3
1
1 1
1 2 1
```

```
enter the value for n5
1
11
121
1331
14641
```