```
#include <stdio.h>
int main() {
   int i, j, rows;
   printf("Enter the number of rows: ");
   scanf("%d", &rows);
   for (i = 1; i <= rows; ++i) {
      for (j = 1; j <= i; ++j) {
        printf("* ");
      }
      printf("\n");
   }
   return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
  int i, j, rows;
  printf("Enter the number of rows: ");
  scanf("%d", &rows);
  for (i = 1; i <= rows; ++i) {
     for (j = 1; j <= i; ++j) {
        printf("%d ", j);
     }
     printf("\n");
  }
  return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
  int i, j;
  char input, alphabet = 'A';
  printf("Enter an uppercase character you want to print in the last row: ");
  scanf("%c", &input);
  for (i = 1; i <= (input - 'A' + 1); ++i) {
     for (j = 1; j <= i; ++j) {
        printf("%c ", alphabet);
     }
     ++alphabet;
     printf("\n");
  }
  return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
   int i, j, rows;
   printf("Enter the number of rows: ");
   scanf("%d", &rows);
   for (i = rows; i >= 1; --i) {
      for (j = 1; j <= i; ++j) {
        printf("* ");
      }
      printf("\n");
   }
   return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
   int i, j, rows;
   printf("Enter the number of rows: ");
   scanf("%d", &rows);
   for (i = rows; i >= 1; --i) {
      for (j = 1; j <= i; ++j) {
        printf("%d ", j);
      }
      printf("\n");
   }
   return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
    int i, space, rows, k = 0;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; ++i, k = 0) {
        for (space = 1; space <= rows - i; ++space) {
            printf(" ");
        }
        while (k != 2 * i - 1) {
            printf("* ");
            ++k;
        }
        printf("\n");
    }
    return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
 int i, space, rows, k = 0, count = 0, count1 = 0;
  printf("Enter the number of rows: ");
  scanf("%d", &rows);
 for (i = 1; i \le rows; ++i) {
   for (space = 1; space <= rows - i; ++space) {
     printf(" ");
      ++count;
   while (k != 2 * i - 1) {
     if (count <= rows - 1) {
        printf("%d ", i + k);
        ++count;
     } else {
        ++count1;
        printf("%d ", (i + k - 2 * count1));
     }
      ++k;
    count1 = count = k = 0;
    printf("\n");
 }
 return 0;
```

```
#include <stdio.h>
int main() {
  int rows, i, j, space;
  printf("Enter the number of rows: ");
  scanf("%d", &rows);
  for (i = rows; i >= 1; --i) {
    for (space = 0; space < rows - i; ++space)
      printf(" ");
    for (j = i; j <= 2 * i - 1; ++j)
      printf("* ");
    for (j = 0; j < i - 1; ++j)
      printf("*");
    printf("\n");
  }
  return 0;
}</pre>
```

```
#include <stdio.h>
int main() {
  int rows, coef = 1, space, i, j;
  printf("Enter the number of rows: ");
  scanf("%d", &rows);
  for (i = 0; i < rows; i++) {
    for (space = 1; space <= rows - i; space++)
      printf(" ");
   for (j = 0; j \le i; j++) {
      if (j == 0 || i == 0)
        coef = 1;
      else
        coef = coef * (i - j + 1) / j;
      printf("%4d", coef);
    printf("\n");
 return 0;
```

```
#include <stdio.h>
int main() {
  int rows, i, j, number = 1;
  printf("Enter the number of rows: ");
  scanf("%d", &rows);
  for (i = 1; i <= rows; i++) {
    for (j = 1; j <= i; ++j) {
       printf("%d ", number);
       ++number;
    }
    printf("\n");
  }
  return 0;
}</pre>
```