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/*
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     Program completed on Monday, 31 December, 2018
     Element i,j in Pascal's Triangle = i! / (j! * (i - j)!)
*/
#include <stdio.h>
#include imits.h>
                       //For MAX_INT
#include <stdlib.h>
                       //For exit()
#define BUF_SIZE 512
void errF(char * s, int i) {
     printf("%s%i. Please try a smaller number.\n", s, i);
     exit(1);
}
long f(int n) { //Factorial function
    long ans = 1, i;
    for (i = 1; i \le n; i++) {
         if (ans * i > INT MAX)
              errF("Integer overflow for factorial function when multiplying ", i);
         else ans *= i;
    }
    return (int) ans;
}
void pascal(int n) {
    int i;
     for (i = 0; i < n; i++) {
         int j;
         for (j = 0; j \le i; j++)
              printf("%Id ", f(i) / (f(j) * f(i - j)));
         printf("\n");
}
int main (void) {
     printf("Please select a number up to 13: ");
     char buffer[BUF_SIZE];
    int n;
    while (fgets(buffer, BUF_SIZE, stdin) != NULL) {
         if (sscanf(buffer, "%i", &n) != 1)
              printf("Error, please try again.\n");
```