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// Q10. Write a program in C to display a pattern like a diamond.
#include <stdio.h>
void printPascalsTriangle(int rows)
    int arr[rows][rows];
    for (int i = 0; i < rows; i++)
    {
        for (int j = 0; j <= i; j++)
            if (j == 0 || j == i)
                arr[i][j] = 1;
            else
                arr[i][j] = arr[i - 1][j - 1] + arr[i - 1][j];
        }
    }
    for (int i = 0; i < rows; i++)
        for (int space = 0; space < rows - i - 1; space++)</pre>
            printf(" ");
        for (int j = 0; j <= i; j++)
            printf("%d ", arr[i][j]);
        printf("\n");
    }
}
int main() {
    int n;
    printf("Enter the number of rows for Pascal's Triangle: ");
    scanf("%d", &n);
    if (n <= 0)
        printf("Number of rows must be a positive integer.\n");
        printPascalsTriangle(n);
    return 0;
}
Output:
Enter the number of rows for Pascal's Triangle: 5
    1
   1 1
  1 2 1
1 3 3 1
1 4 6 4 1
```