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1  /// Final 2555-2: Number Stairs
2  /// Author Pinyo Taeprasartsit
3
4  #include <stdio.h>
5
6  int main() {
7      int A[500];
8      int i = 0; // This variable also works as a counter.
9      while(1) {
10         int temp;
11         scanf("%d", &temp);
12         if(temp < 0 || temp >= 10) {
13             break;
14         }
15         A[i] = temp;
16         ++i;
17     }
18
19     // We use variable N to store the number of stair steps.
20     // Technically, we can just use variable i, but we switch to N
21     // since its name is more common for representation of the count.
22     // This step is not necessary, but recommended.
23     const int N = i;
24     int p, q;
25     for(p = 0; p < N; ++p) {
26         for(q = 0; q < N; ++q) {
27             if(q < N - p - 1) {
28                 printf(" ");
29             } else {
30                 printf("%d", A[p]);
31             }
32         }
33         printf("\n");
34     }
35
36     return 0;
37 }

```