#include<stdio.h>

int main()

{

int n;

int k=1;

scanf("%d",&n);

int s=n-1;

for (int i = 1; i <= n; i++)

{

for ( int j = 1; j <= s; j++)

{

printf(" ");

}

for (int j = 1; j <= i; j++)

{

printf("%d ",k);

k++;

}

s--;

printf("\n");

}

return 0;

}