#include<stdio.h>

//Code by arya Nair

int main()

{

int n,alph='A',num=1;

printf("Enter number of rows: ");

scanf("%d",&n);

for (int i=0;i<=n;i++)

{

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

{

//printf("a");

printf(" ");

}

for (int k=0;k<i;k++)

{

if (i%2==1)

{

printf("%d ",num);

num++;

}

else{

printf("%c ",alph);

alph++;

}

}

for (int j=0;j<2\*i-2;j++)

{

printf(" ");

}

printf("\n");

}

return 0;

}

