#include <stdio.h>

int main()

{

int n, i;

double s = 1, sn = 1;

double a[50001];

a[0] = 0;

for (i = 2; i <= 50001; i++)

{

a[i - 1] = sn;

s += (1.0 / i) \* 2;

sn += s;

}

for (;;)

{

scanf("%d", &n);

if (n == 0)

break;

else

printf("%.2f\n", a[n]);

}

return 0;

}

#include "bits/stdc++.h"

using namespace std;

typedef struct Node

{

int data;

bool flag;

} node;

int main()

{

int n, m;

cin >> n >> m;

Node \*node = new Node[n];

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

{

node[i].data = i + 1;

node[i].flag = true;

}

int cnt = 0;

int index = -1, cnt2 = 1;

while (cnt2 != n + 1)

{

int temp = index;

index = (index + 1) % n;

if (node[index].flag == true)

{

cnt++;

if (cnt % m == 0)

{

node[index].flag = false;

if (cnt == m)

{

cout << node[index].data;

cnt2++;

}

else

{

cout << " " << node[index].data;

cnt2++;

}

}

}

}

}

#include <bits/stdc++.h>

using namespace std;

int main() {

int a, b, c, d, e, f;

int arr[6];

for (int i = 0; i < 6; i++) {

cin >> arr[i];

}

int sumf, sumt, delta, count = 0, flag;

sumf = arr[0] + arr[1] + arr[2];

sumt = arr[3] + arr[4] + arr[5];

flag = sumf - sumt;

while (1) {

sumf = arr[0] + arr[1] + arr[2];

sumt = arr[3] + arr[4] + arr[5];

delta = sumf - sumt;

if (delta \* flag <= 0) break;

if (delta < 0) {

int minf = 0, maxt = 3;

if (arr[1] < arr[minf]) minf = 1;

if (arr[2] < arr[minf]) minf = 2;

if (arr[4] > arr[maxt]) maxt = 4;

if (arr[5] > arr[maxt]) maxt = 5;

if (9 - arr[minf] > arr[maxt]) arr[minf] = 9;

else arr[maxt]=0;

count++;

} else {

int maxf = 0, mint = 3;

if (arr[1] > arr[maxf]) maxf = 1;

if (arr[2] > arr[maxf]) maxf = 2;

if (arr[4] < arr[mint]) mint = 4;

if (arr[5] < arr[mint]) mint = 5;

if (9 - arr[mint] > arr[maxf]) arr[mint] = 9;

else arr[maxf]=0;

count++;

}

}

cout << count;

}

#include"bits/stdc++.h"

using namespace std;

bool isPrime(int n) {

if(n == 1) return true;

for(int i = 2; i <= sqrt(n); ++i) {

if(n % i == 0) return false;

}

return true;

}

int main() {

int x, y;

while(cin>>x>>y && !(x == 0 && y == 0)) {

bool flag = true;

while(x <= y) {

int res = x \* x + x + 41;

if(!isPrime(res)) {

cout<<"Sorry\n";

flag = false;

break;

}

x++;

}

if(flag) {

cout<<"OK\n";

}

}

}

#include "bits/stdc++.h"

using namespace std;

int main()

{

int n;

cin >> n;

for (int i = 0; i <= (2 \* n - 1) / 2; ++i)

{

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

{

printf(" ");

}

for (int k = 0; k < 2 \* n - 2 \* i - 1; ++k)

{

printf("#");

}

printf("\n");

}

for (int i = 1; i <= (2 \* n - 1) / 2; ++i)

{

for (int j = (2 \* n - 1) / 2 - i; j > 0; --j)

{

printf(" ");

}

for (int k = 0; k < 2 \* i + 1; ++k)

{

printf("#");

}

printf("\n");

}

}

#include <bits/stdc++.h>

using namespace std;

int main() {

int T;

cin >> T;

for (int t = 0; t < T; t++) {

int N, num, i, flag = 1;

cin >> N;

for (i = 0; i < N; i++) {

cin >> num;

if (num > 1 && flag) {

if (i % 2 == 0)

cout << "Alice" << endl;

else

cout << "Bob" << endl;

flag = 0;

}

}

if (flag) {

if (i % 2 == 0)

cout << "Bob" << endl;

else

cout << "Alice" << endl;

}

}

}

24不会做

25有3点过不去

#include "bits/stdc++.h"

using namespace std;

int main()

{

int n, m;

cin >> n >> m;

// cout << n << " " << m;

int arr[m][m];

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

{

arr[i][0] = arr[i][i] = 1;

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

{

arr[i][j] = arr[i - 1][j] + arr[i - 1][j - 1];

}

}

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

{

int cnt = 0;

for (int j = 0; j < i + 1; j++)

{

while (cnt != m - 1 - i)

{

printf(" ");

cnt++;

}

if (j == 0)

printf("%d", arr[i][j] %10);

else

printf(" %d", arr[i][j] % 10);

}

printf("\n");

}

}