Algorithm **triangle** is: {version 0}

@ Read dimension of the triangle (F1)

@ Initialize the first diagonal and the first column with 1 and complete Pascal’s triangle (F2+F3)

@Print Pascal’s triangle (F4)

Algorithm triangle is:{verison 1}

read(n);

for i:=0,n execute

a[i][i]:=1;

a[i][0]:=1;

endfor;

for i:=2,n execute

for j:=1,i-1 execute

a[i][j]:=a[i-1][j-1]+a[i-1][j];

endfor;

endfor;

printm(a,n);

endalg;

Subalgorithm printm(a,n);

Data: a,n

Precondition: a-matrix a[0..n,0..n]

n-natural number

Results:-

Postocondition:-

Subalgorithm printm(a,n) is:{version 1}

for i:=0,n execute

for k:=0,n-i execute print(’ ’);

endfor;

for j:=0,i execute print(a[i][j]);

endfor;

endfor;

endsub;