TCS NUMBER PYRAMID

#include<iostream>

using namespace std;

int main(){

int height;

cin>>height;

int req=(height\*(height+1))/2;

int numbers[req];

int add=22;

int row=1;

int space=height;

int zeros=4;

numbers[0]=6;

for(int i=1;i<req;i++){

numbers[i]=numbers[i-1]+add;

add=add+16;

}

for(int i=1;i<=height;i++){

int k=1;

for(int j=1;j<space;j++){

cout<<" ";

}

int num=1;

while(num<=i){

if(numbers[row-1]<10){

zeros=4;

}

else if(numbers[row-1]>=10&&numbers[row-1]<=99){

zeros=3;

}

else if(numbers[row-1]>=100&&numbers[row-1]<=999){

zeros=2;

}

else if(numbers[row-1]>=1000&&numbers[row-1]<=99993){

zeros=1;

}

else{

zeros=0;

}

for(int l=zeros;l>0;l--){

cout<<"0";

}

if(num==i){

cout<<numbers[row-1];

}

else{

cout<<numbers[row-1]<<" ";

}

num++;

row++;

}

zeros--;

cout<<endl;

cout<<endl;

space--;

}

}