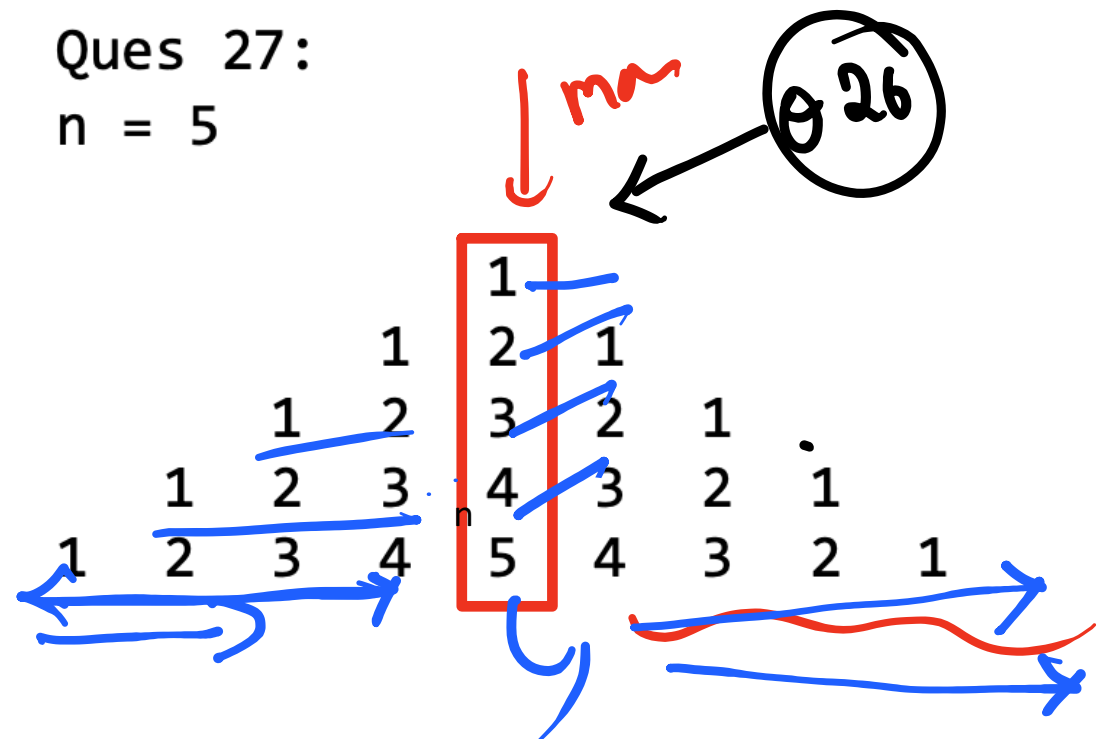
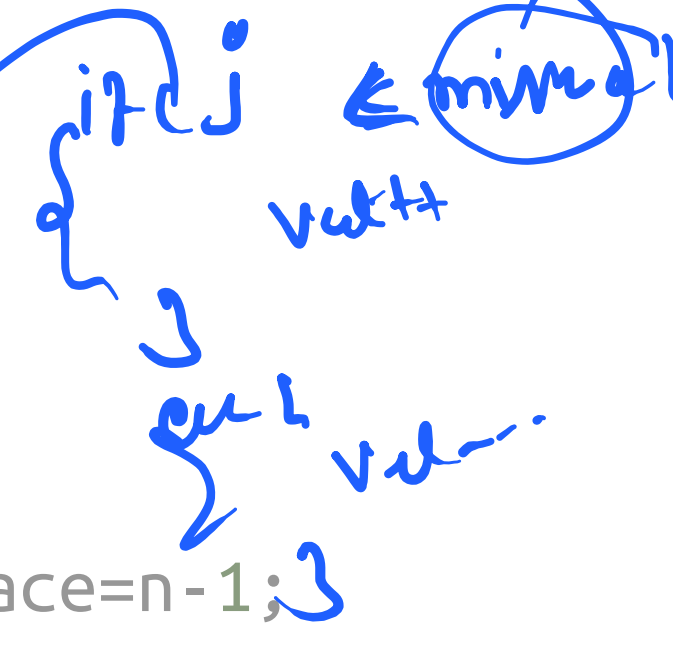


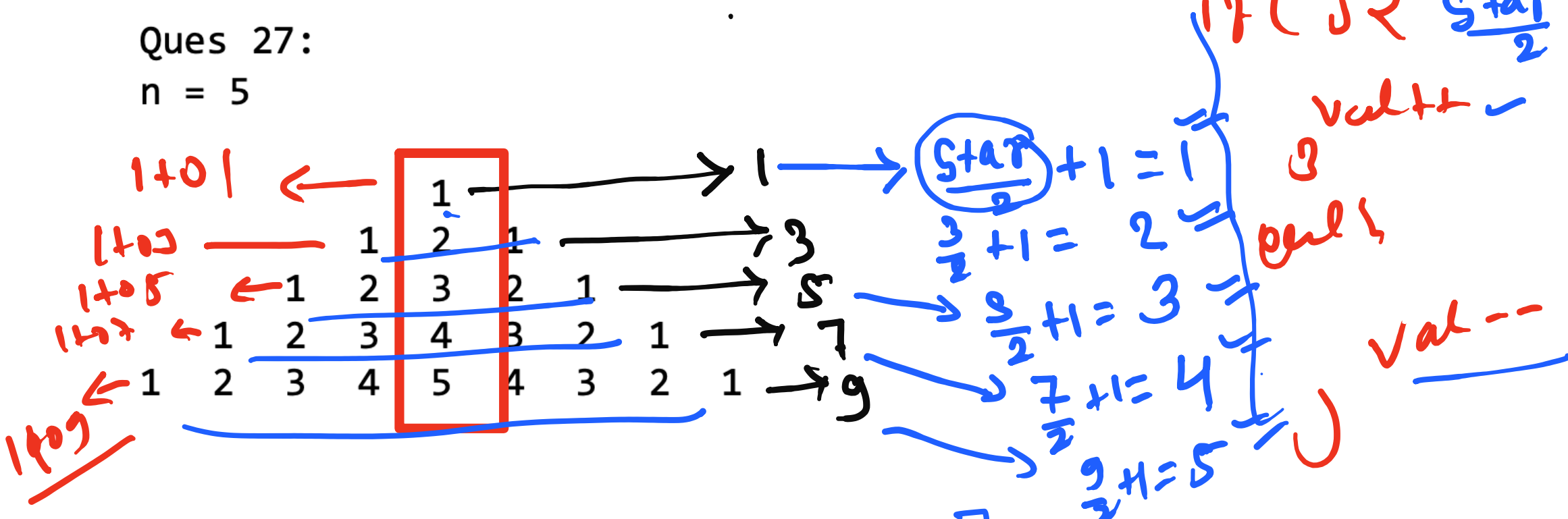
Ques 27:  
n = 5



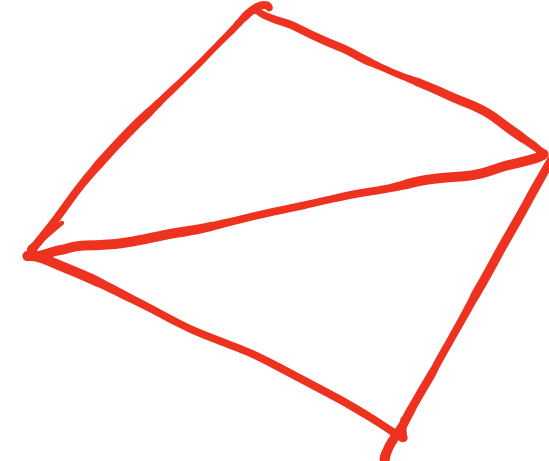
```
#include <iostream>
using namespace std;
int main(){
    int n;
    cin>>n;
    int row=1,star=1,space=n-1;
    while(row<=n){
        // sapce
        int i=1;
        while(i<=space){
            cout<<" ";
            i++;
        }
        // star
        int j=1;
        while(j<=star){
            cout<<"val";
            j++;
        }
        // next row ki prep
        star=star+2;
        space--;
        row++;
        cout<<endl;
    }
}
```



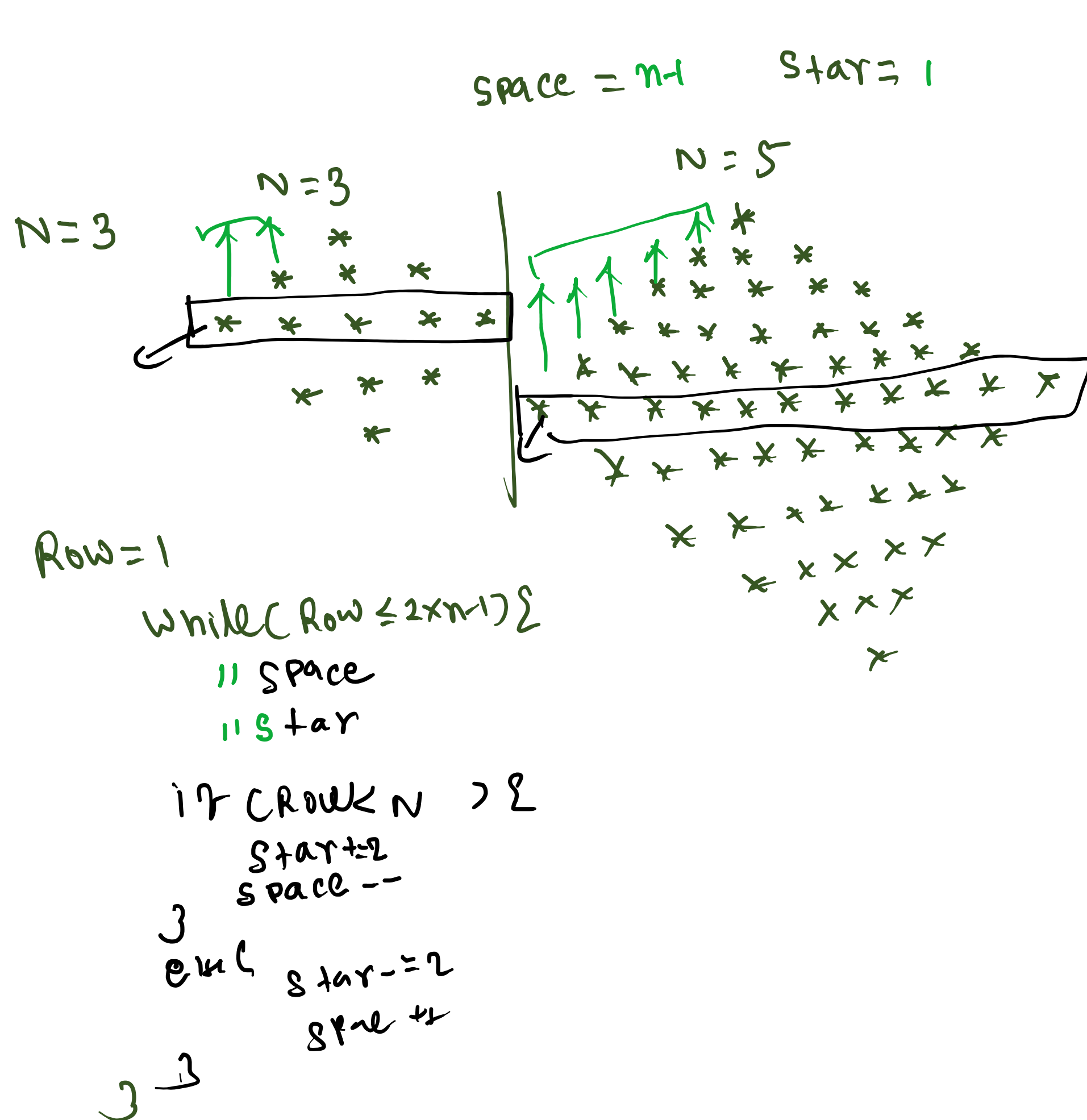
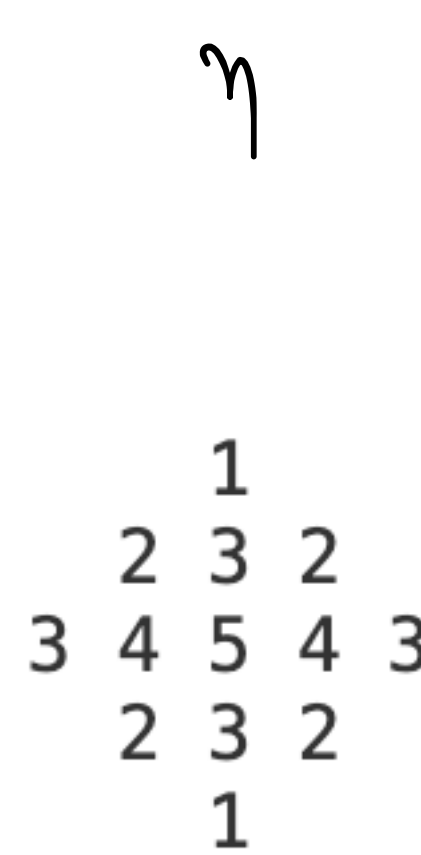
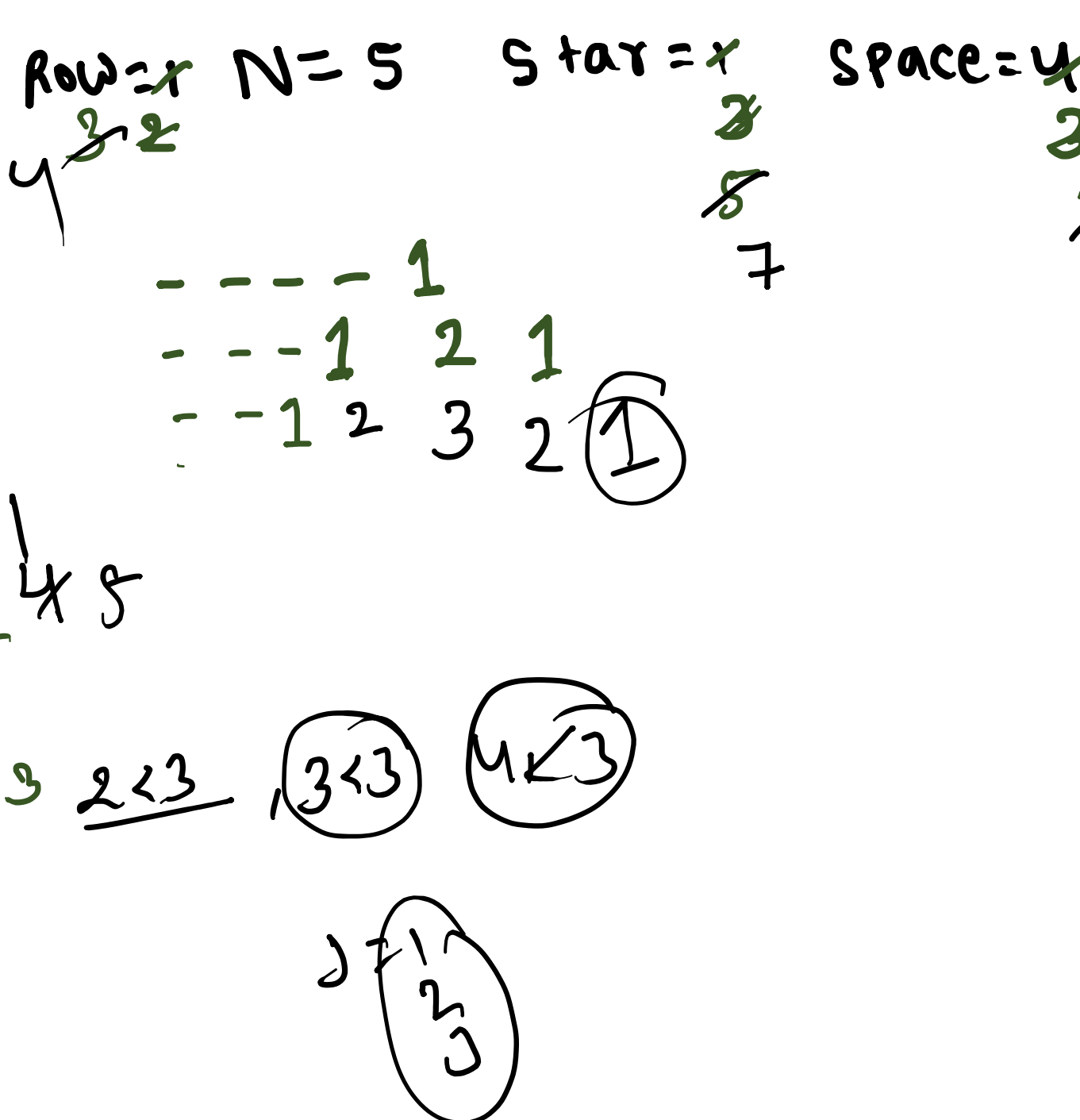
Ques 27:  
n = 5



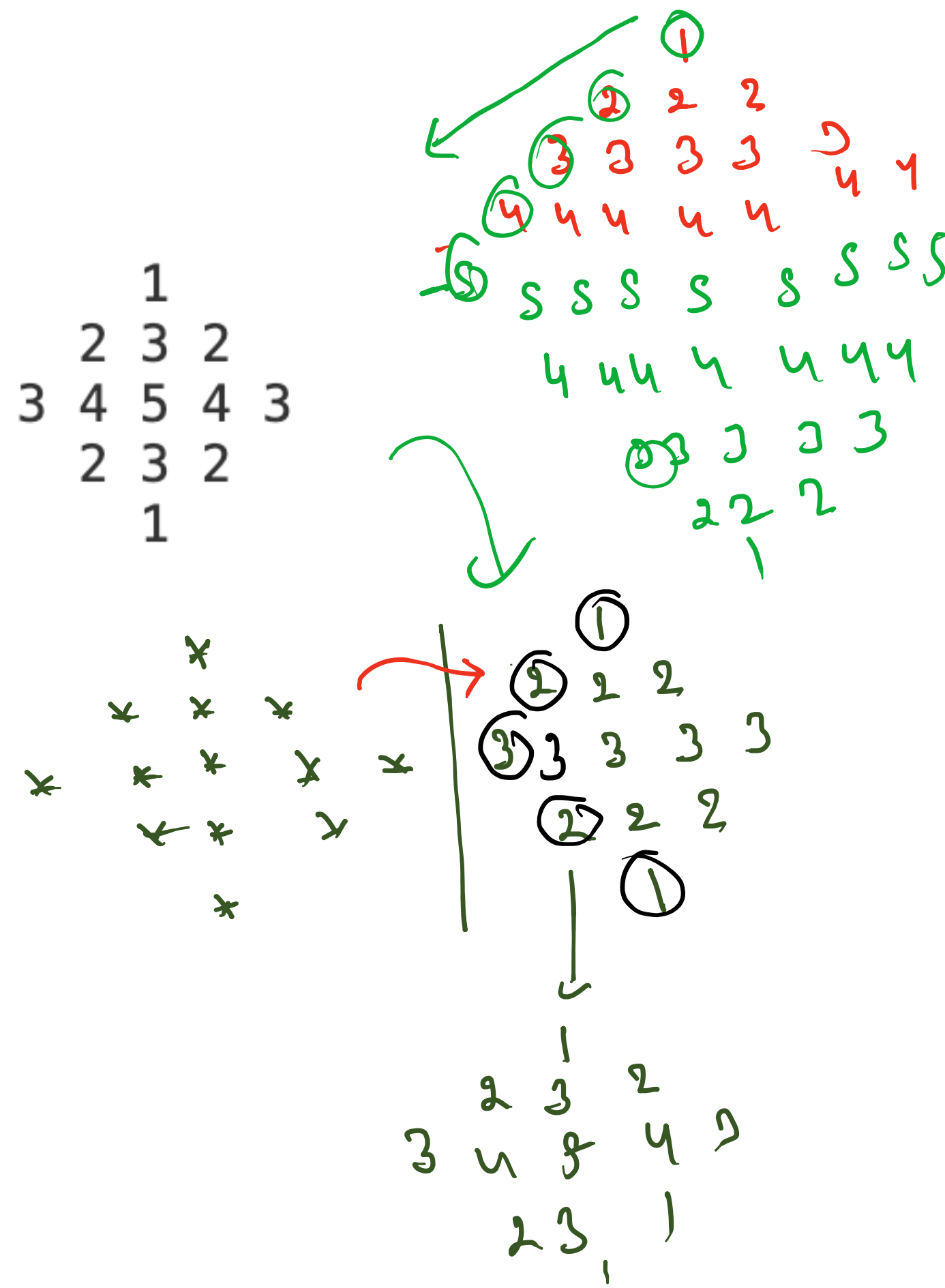
Row → 1 → j = 1  
Row → 2 → j = 2  
Row → 3 → j = 3  
Row → 4 → j = 4  
Row → 5 → j = 5



```
#include <iostream>
using namespace std;
int main(){
    int n;
    cin>>n;
    int row=1,star=1,space=n-1;
    while(row<=n){
        // sapce
        int i=1;
        while(i<=space){
            cout<<" ";
            i++;
        }
        // star
        int val=1;
        int j=1;
        while(j<=star){
            cout<<val<<" ";
            if(j<star/2+1){
                val++;
            }
            else{
                val--;
            }
            j++;
        }
        // next row ki prep
        star=star+2;
        space--;
        row++;
        cout<<endl;
    }
}
```



```
#include <iostream>
using namespace std;
int main(){
    int n;
    cin>>n;
    int row=1;
    int star=1;
    int space=n-1;
    while(row<=2*n-1){
        // space
        int i=1;
        while(i<=space){
            cout<<" ";
            i++;
        }
        // star
        int j=1;
        while(j<=star){
            cout<<"val";
            j++;
        }
        // mirror
        if(row<n){
            star+=2;
            space--;
        }
        else{
            star-=2;
            space++;
        }
        // next line ki prep
        row++;
        cout<<endl;
    }
}
```



```
#include <iostream>
using namespace std;
int main(){
    int n;
    cin>>n;
    int row=1;
    int star=1;
    int space=n-1;
    int val=1;
    while(row<=2*n-1){
        // space
        int i=1;
        while(i<=space){
            cout<<" ";
            i++;
        }
        // star
        int j=1;
        while(j<=star){
            cout<<val<<" ";
            j++;
        }
        // mirror
        if(row<n){
            star+=2;
            space--;
            val++;
        }
        else{
            star-=2;
            space++;
            val--;
        }
        // next line ki prep
        row++;
        cout<<endl;
    }
}
```

