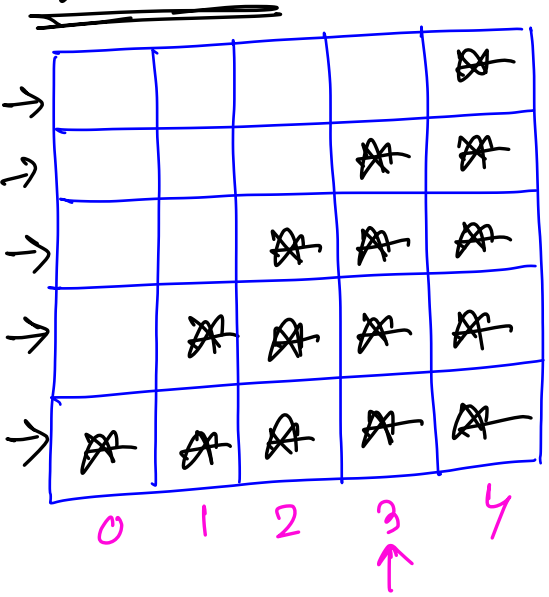
# Fibonacci Sequence

0 1 1 2 3 5 8 13 21 34 55 >

```
int main(){
    int a=0, b=1;
    for(int i=0; i<10; i+=2)
    printf("%d \t %d", a, b);
    a=a+b;
    b=a+b;
}
```

## Pattern 3



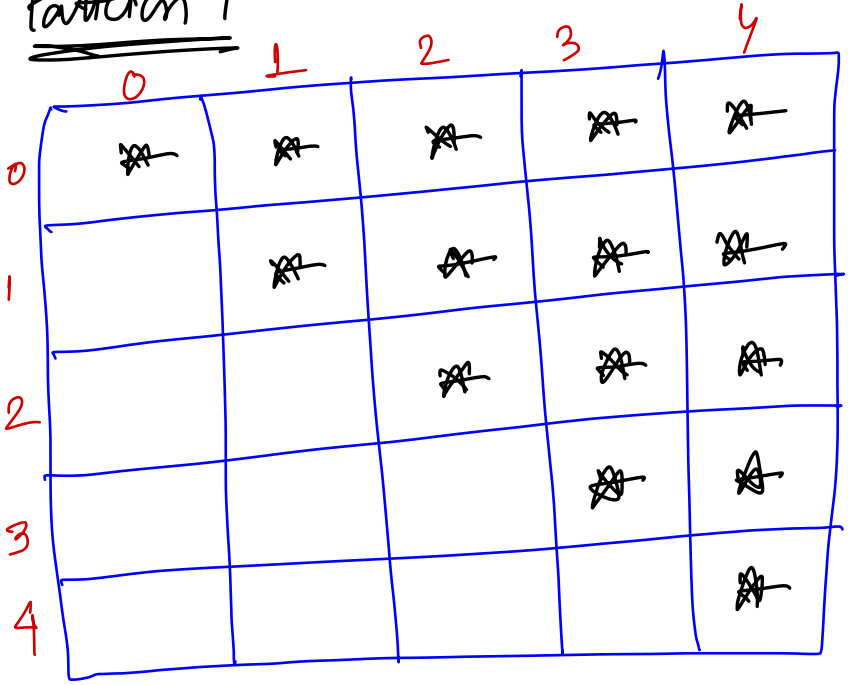

Pattern 2 + pattern 1

```
for(int i=0; i<5; i++) {
    for(int j=0; j<4-i; j++){
        printf(" ");
    }
    for(int k=0; k<=i; k++)
        printf("* ");
    printf("\n");
}
```

for space

for *

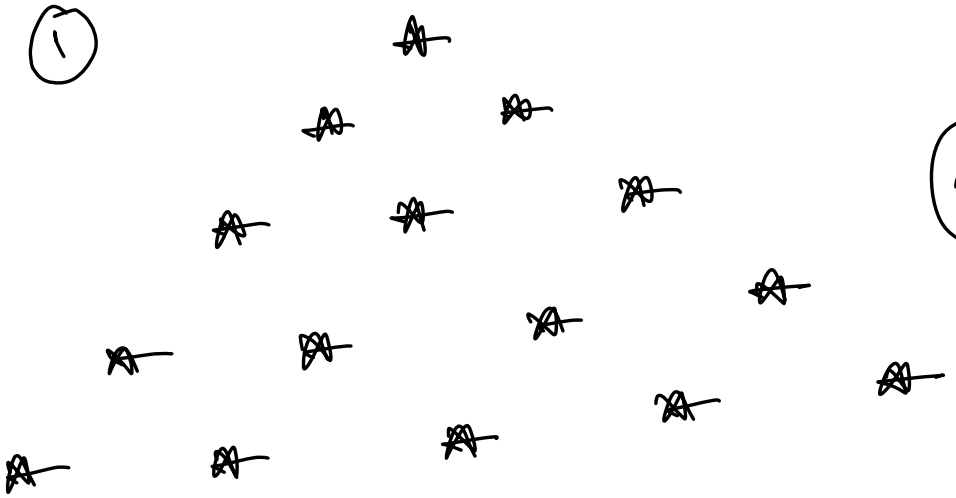
## Pattern 4




```
for(int i=0; i<5; i++) {
    for(int j=0; j<i; j++){
        printf(" ");
    }
    for(int k=0; k<5-i; k++)
        printf("* ");
    printf("\n");
}
```

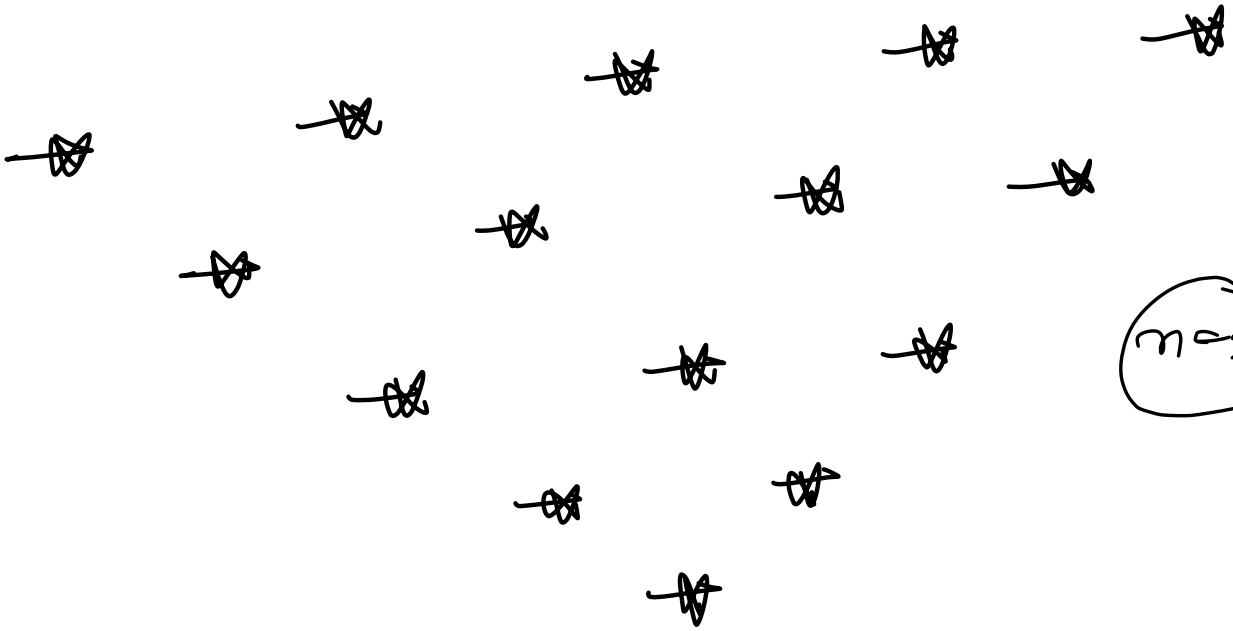
Advanced pattern

1



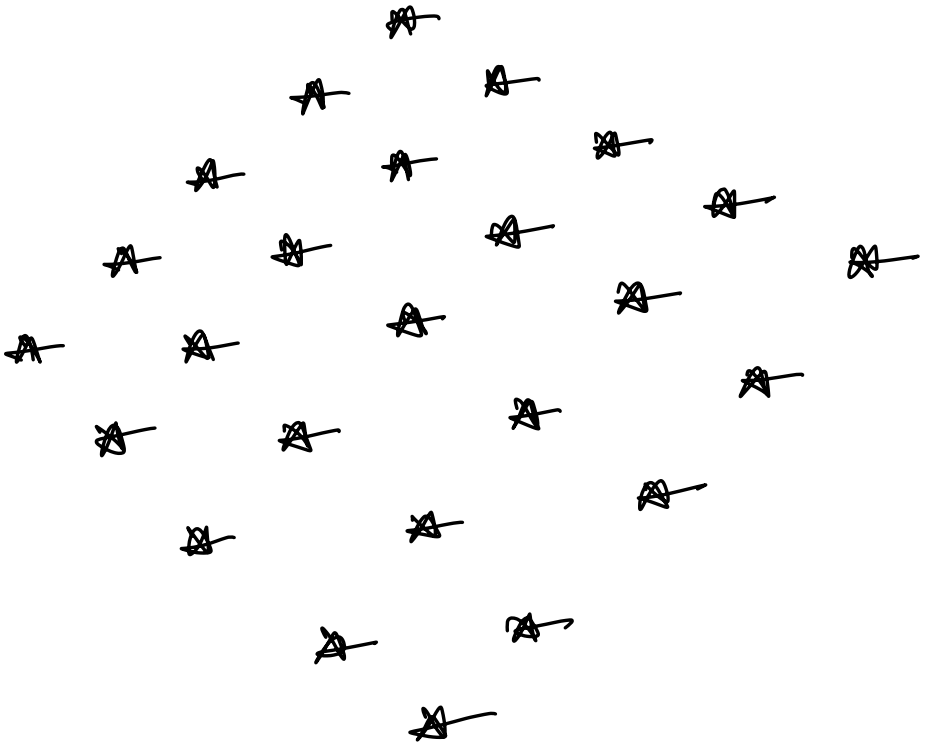
n=5

2



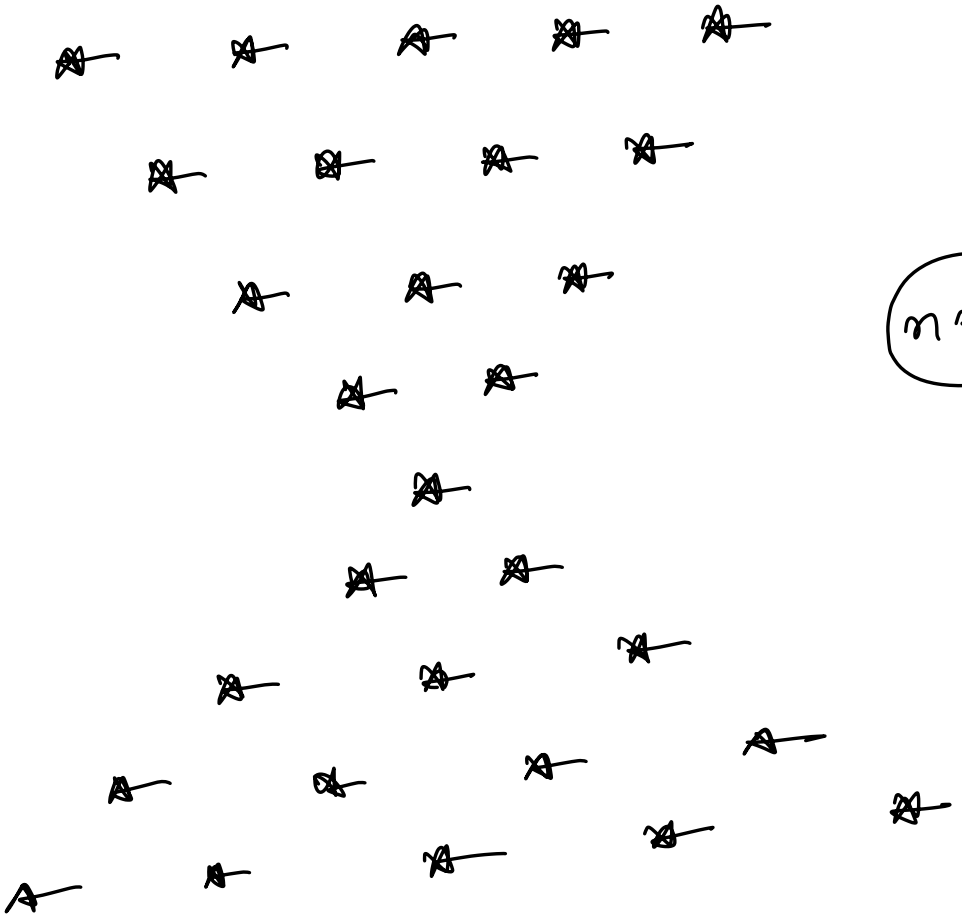
n=5

3



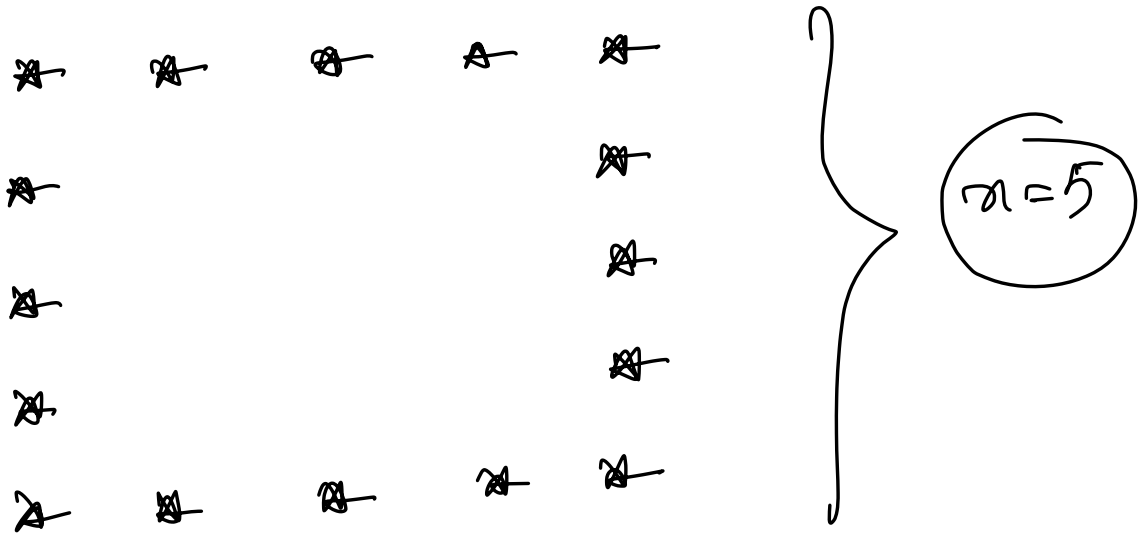
n=5

④



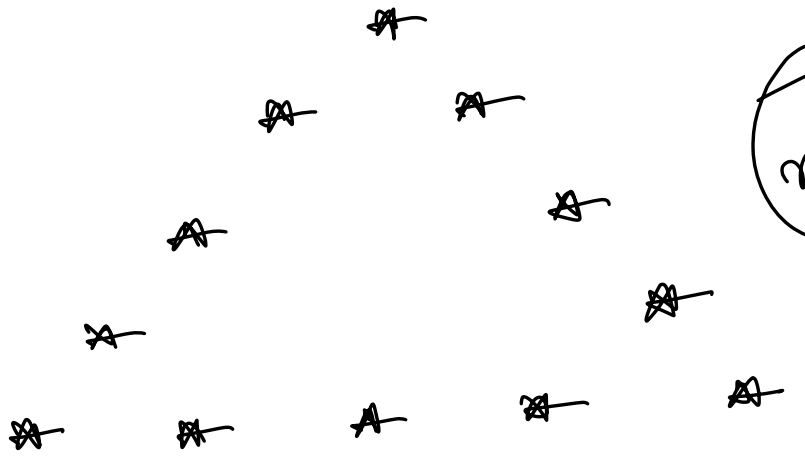
$n=5$

⑤



$n=5$

6




7

8

1

1 1

1 2 1

1 3 3 1