n = 30
k = 6

30 → Slow

70 → fast

n, n-k, n-2k, n-3k - - -

c = x

(x+1)

(x+2)

c <= (x+25) ⟶ work

↑ (No!)

↓

c += 1

x+25

(x+25)

✓ | 30, 24, 18, 12, 6, 0 | → -ve

Slow

fast

'a'

b

c

d

e

z

perfect

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        for(char c = 'a'; c <= 'z'; c += 1) {
            System.out.println(c);
        }
    }
}
```

c1 = 'a' 'c' 'e'
c2 = 'B' 'D' 'F'

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        for(char c1 = 'a', c2 = 'B'; c1 <= 'z' && c2 <= 'Z'; c1 += 2, c2 += 2)  {
            System.out.println(c1);
            System.out.println(c2);
        }
    }
}
```

a
B
c
D
e
F
.
.
.

('a' + 0) → 'a'

'a' + 1 → 'b'

'a' + 2 → 'c'

⋮

'a' + 25 → 'z'

for(int i=0; i<=25; i++)

if (i is even){

c1

} else {

c2

}

i=0=1

→ c1 = 'a'

→ c2 = 'β'

'β' +

'a'

Total no of chars

(26)

```
{
for(int i=0; i<26; i++) {
    if (i is even) → print('a'+i)
    else print('A'+i)
}
'a'+0
```

i = 0 1 2

i<26 → true

i++

'A'+1

a

B

→ Ping Pong →

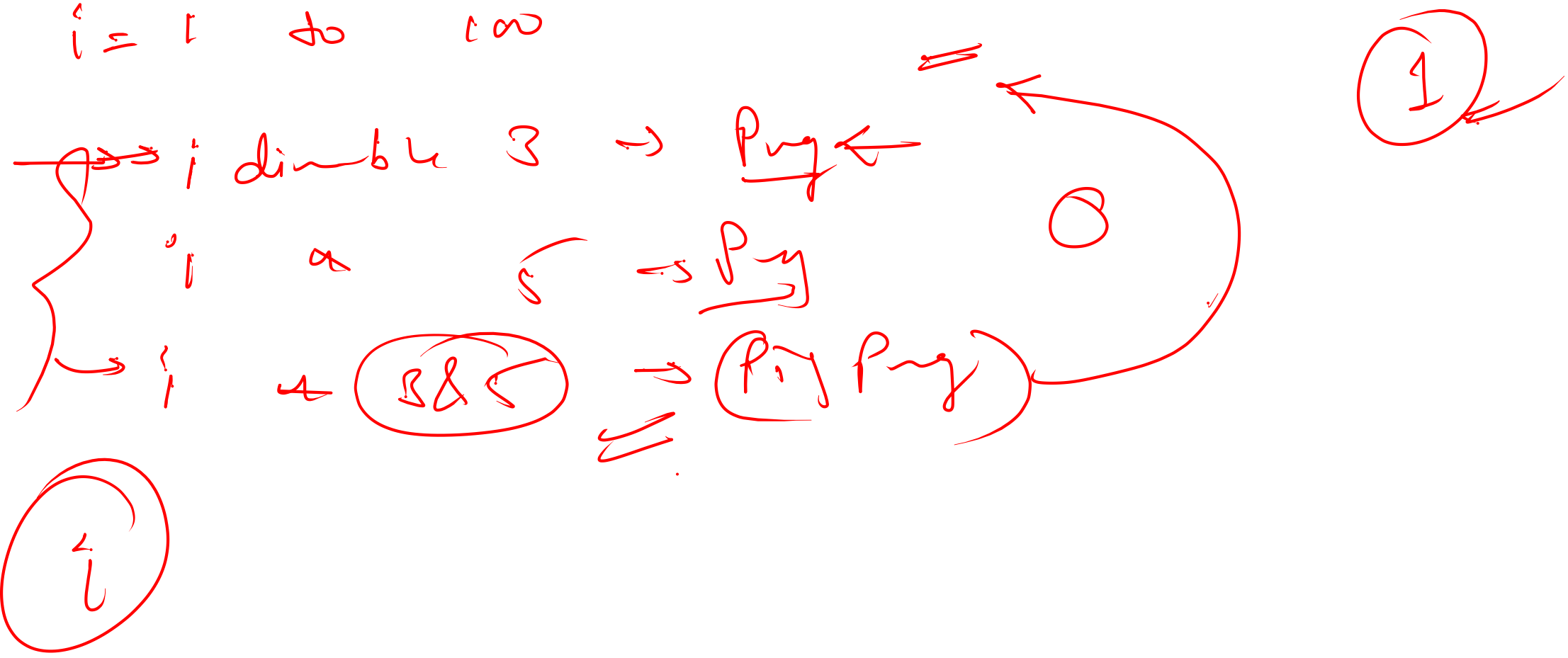
↳ 1 to 100

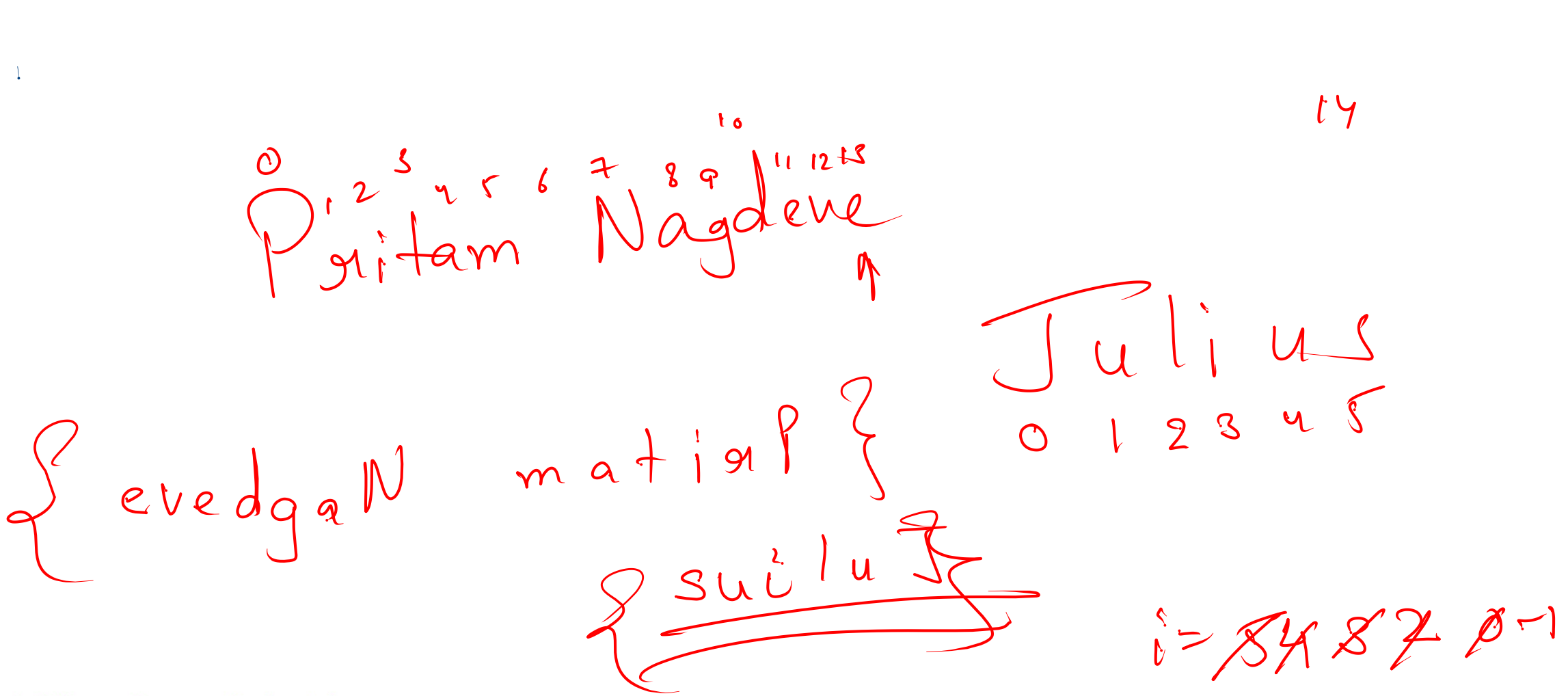
↳ ~~Ping~~ → 3P

~~Pong~~ → 5

1. Question

5
10
25
15
45
75
15
14
Piyboy
1
2
Ping
4
Poy
Ping
7
8
Ping
Poy
11
Piy


i = 1 do ∞
i divisible 3 → Pong
i a 5 → Py
i a 3&5 → Ping Pong
1
0
1
i


Priyam Nagdeve
Julius
{ evedgaN matiaP }
{ suilu }
i = 5 4 3 2 1 0
public class Solution {
public static void main(String[] args) {
Scanner scn = new Scanner(System.in);
String str = scn.nextLine();
for(int i = str.length() - 1; i >= 0; i -= 1) {
System.out.print(str.charAt(i));
}
}
}
i>=0
work
i--
i>=0

$n = 7$

↳ $2^n \rightarrow 2^5 \rightarrow 32$

$2^7 \rightarrow 128$

$2^n \rightarrow$

$n = 4$

ans = 1 2 4 8 16

```
for(int i=1; i<=n ; i++) {
    ans = ans * 2;
}
```

Sys. — — — (ans)

16

1111

1×2

2

2×2

4

4×2

8

16

$n = 2000$

{ 1 2 4 8 16 32 64 128 256 512 1024 }

while

```
int n = 1;
while (n <= 100) {
    Sy - - - - - (n);
    n = n * 2;
}
```

n = 1 2 4 8 64 128

1
2
4
8
16
32
64