

$n=5$
 $1+2+3+4+5=15$
`int sum = 0;`
`for (int i = 1; i <= num; i++) {`
`sum = sum + i;`
`}`
`System.out.println(sum);`
 $1+2+3+4+5$
 $sum = 0, 1, 2, 3, 4, 5$
 $i = 1, 2, 3, 4, 5$
 $num = 5$

```

int num = sc.nextInt();
int sum = 0;
for (int i = 1; i <= num; i++) {
    sum = sum + i;
}
System.out.println(sum);

```

$num = 5$
 $sum = 0, 1, 2, 3, 4, 5$
 $i = 1, 2, 3, 4, 5$

Q: 1 num i/p.

ex: num = 5

num = 6

$1+2+3+4+5 = 15$
 o/p.

$1+2+3+4+5+6 = 21$
 o/p.

```

int num = sc.nextInt();
for (int i = 1; i <= num; i++) {
    num = num + i;
    System.out.println("sum of number is : " + num);
}

```

8
 10
 13

$num = 7, 8, 10, 13, 17, \dots - 1000$
 $i = 1, 2, 3, 4$

TLE