SWITCH

INPUT a, b, op (int)

op : 1) +
2) -
3) *
4) /

```
if(op == 1){
    RIS = a+b;
}
else if(op == 2){
    RIS = a-b;
}
```

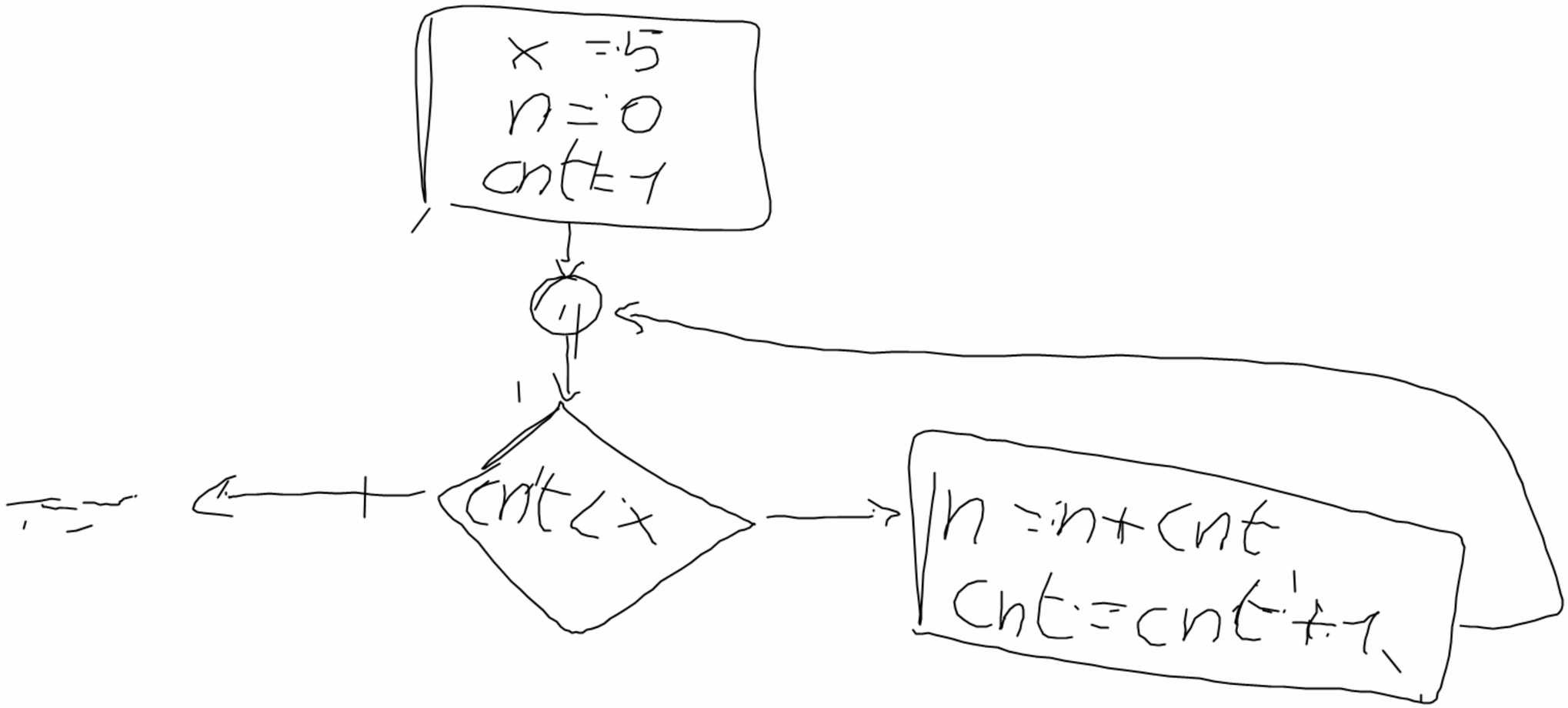
```
if(op==1){
    RIS=a+b;
}
else if(op==2){
    RIS=a-b;
}
else if(op==3){
    RIS=a*b;
}
else if(op==4){
    RIS=a/b;
}
else
```

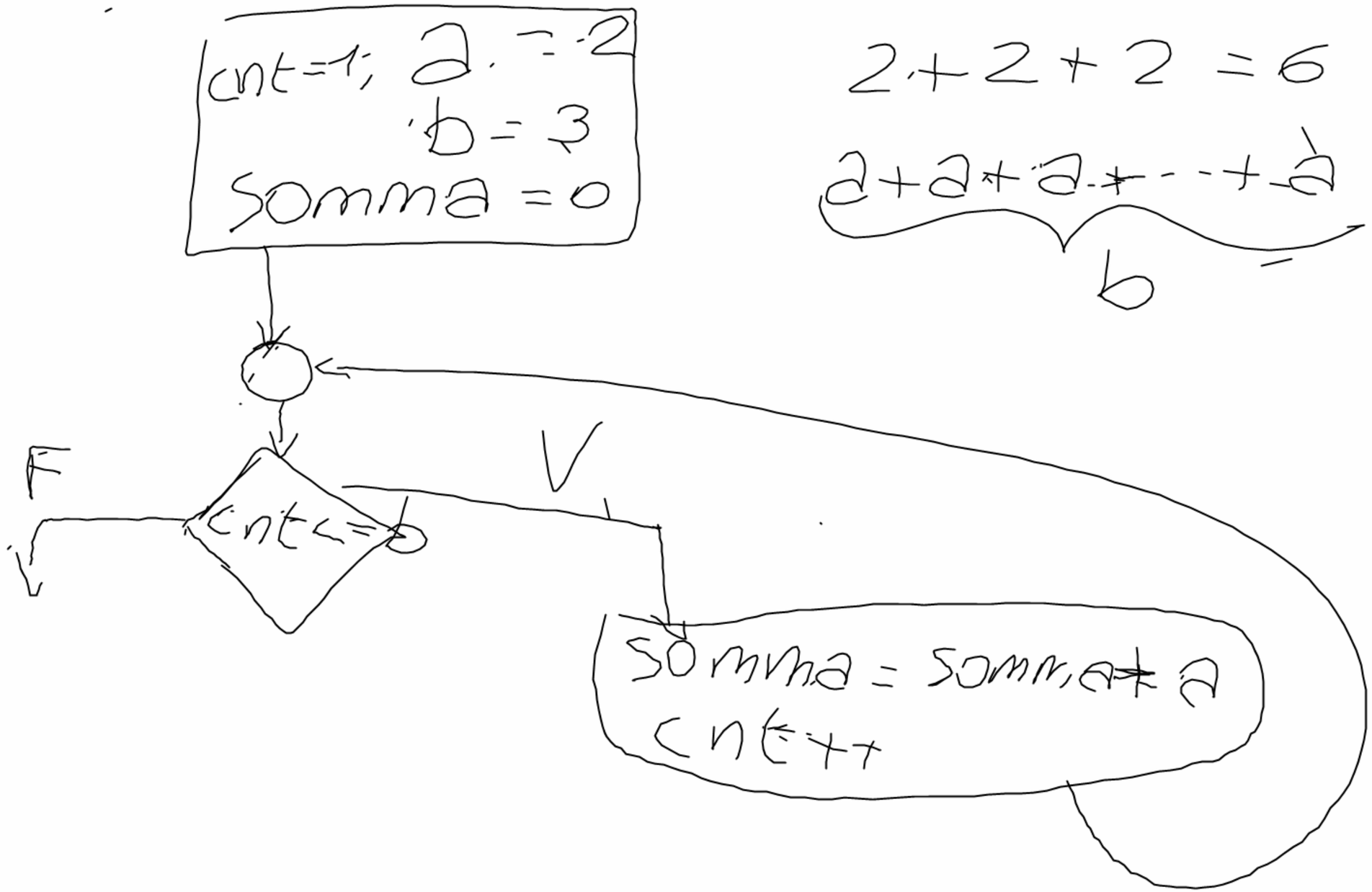
SWITCH

⟹

```
switch(op){
case 1:
    RIS=a+b;
    break;
case 2:
    RIS=a-b;
    break;
case 3:
    RIS=a*b;
    break;
case 4:
    RIS=a/b;
    break;
default:
}
```

CICLO CON CONTROLLO IN TESTA




cnt=1; a=2
b=3
somma=0
2+2+2=6
a+a+a+...+a
b
F
V
cnt<=b
somma=somma+a
cnt++

ES

INPUT : n → OUTPUT : n + (n-1) + (n-2) + ... + 1 + ~~0~~

Ex : n = 5 → 5 + 4 + 3 + 2 + 1 + ~~0~~

= 15

ES FATTORIALE

$$n! = n \cdot (n-1) \cdot (n-2) \cdots 1$$

$$0! = 1$$

SE $n = 5 \longrightarrow 5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$

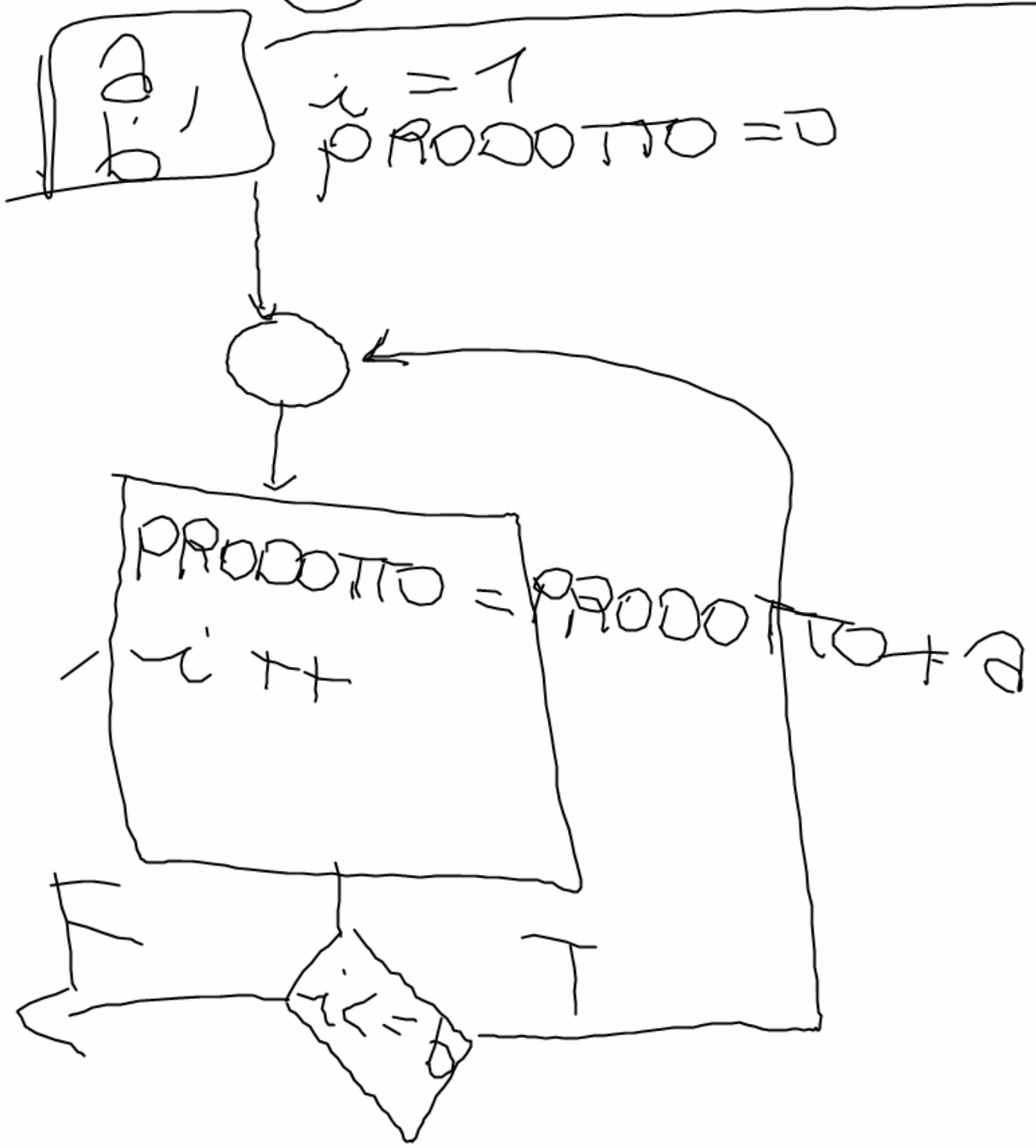
VAR

n ← LEGGI

FATT = 1

è CORRETTO

CONTROLLO IN CODA



WHILE

```
int cnt=1;
int a, b, somma=0;
```

INPUT

```
// INPUT a e b
while (cnt<=b ) {
    somma = somma + a;
    cnt = cnt + 1;
}
```

```
while(condizione){
    //codice
}
```

WHILE

```
int cnt=1;
int a, b, somma=0;
   INPUT
// INPUT a e b
while (cnt<=b ) {
    somma = somma + a;
    cnt = cnt + 1;
}
```

```
while(condizione){
  //codice
}
```

- num > 10 OPPURE num < 50
- PARI
- DISPARI

(num > 10 || num < 50)

- 10 < NUM < 50
- DISPARI
- DIV PER 4

(NUM > 10 AND NUM < 50)