```
int n;
int cnt;
cnt=0;
while(cnt<=n){
printf("%d",cnt);
cnt=cnt+1;
}
```

```
int cnt;
for(cnt=0;cnt<=n;cnt++){
printf("%d",cnt);
}
```

```
int n ; cnt = 1; int a;

do{
printf("inserisci un valore: ");
scanf("%d", &n);
}while(n<1);

a = n;
cnt = n - 1;

while(cnt>0 ){
n = n * cnt
cnt--;
}
```

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

$5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$

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

Fat

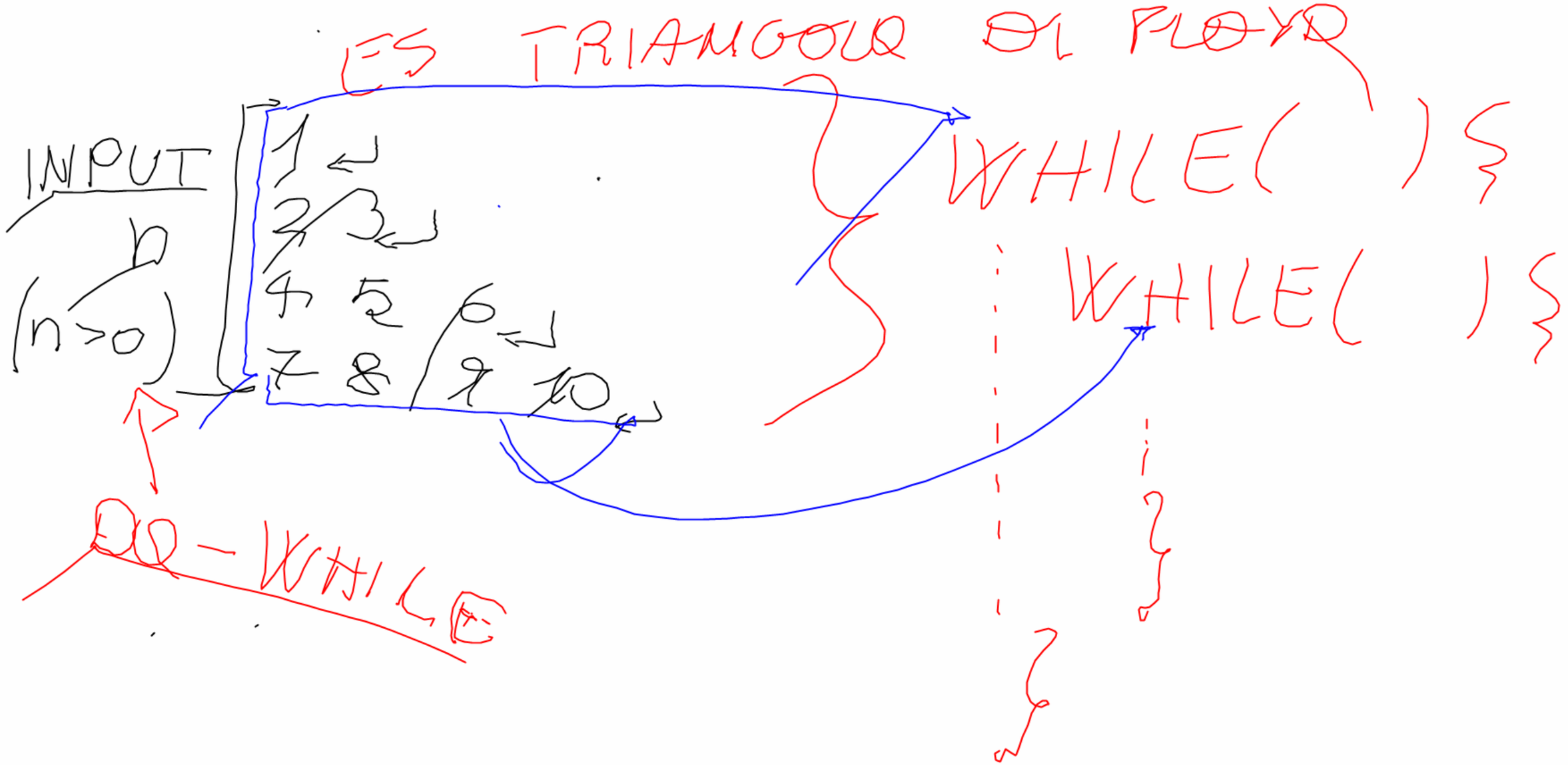
```
int Fat=1;
int cnt=1;
intn; // INPUT

WHILE(cnt<=n);
  Fat=Fat.cnt;
  cnt++;
}
```

Fat2

$Fat = 1 \cdot 2 \cdot 3 \cdots (n-1) \cdot n$

```
intn;
int Fat2=1;
int cnt;
cnt=n;
While(cnt>0){
  Fat2=Fat2.int;
  cnt--;
}
```

```
INT FAT=1; INT CNT;
FOR (CNT=N; CNT>=Q; CNT--) {
    FAT=FAT*CNT;
}
```


ES TRIANGOLO DI FLOYD
INPUT
n
(n>0)
1
2 3
4 5
6
7 8
9 10
WHILE( ){
WHILE( ){
DO-WHILE

```
int n;
int riga;
int colonna;
```

```
do{
    printf("Inserisci n: ");
    scanf("%d", &n);
}while(n<=0);
```

→

COND. TRUE $(n>0)$ —NOT→ COND. FALSE $(n<=0)$

```
printf("...");
scanf("%d", &n);
while(n<=0){
    printf(...);
    scanf(..);
}
```

```
riga = 1;
int num = 1;
while(riga <= h){
    colonna = 1;
    while (colonna <= riga){
    printf("%d", num);
    num++;
    colonna++;
    }
    printf("\n");
    riga++;
}
```

```
riga = 1;
int num = 1;
for(riga = 1; riga <= h; riga++)
{ colonna = 1;
    for(colonna = 1; colonna <= riga; colonna++)
    { Printf("%d", num);
    num++;
    }
    Printf("\n");
```

ES DIRE SE UN NUMERO È PRIMO O NO (CON FOR)

```
int n;
int cnt;
int div=0;
for(cnt=1;cnt<=n;cnt++){
IF(n%cnt==0){
 div =div+1;
}
}
```

```
if (div==2){
    printf("\n e' un numero primo");
}
else {
printf("\n non e'un numero primo");
}
```

$$!(a >= 10 \;\&\&\; a < 30) \;||\; (b > 5 \;\&\&\; b\%2 == 0)$$

$$\Rightarrow (a <= 10 \;||\; a >= 30) \;\&\&$$

$$(b <= 5 \;||\; b\%2 != 0)$$

# STAMPARE I NUMERI PARI TRA n ed m (FOR)

(n <= m)

n = 5 → 6 → 8 → 10

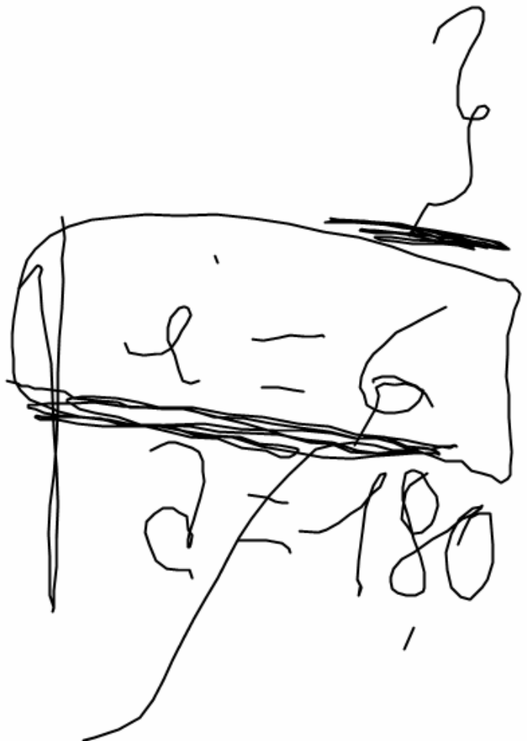
n = 10

n, m, cnt

```
for(cnt=n; cnt<=m; cnt++) {
    if(cnt%2==0) {
        printf(...);
    }
}
```

```
if(n%2==1){ //DISPARI
    n++;
} //n DIVENTA PARI
for(cnt=n; cnt<=m; cnt+=2){
    printf(..);
}
```

```
int a = 3;
int i = 3;
int j = 6;
while( i < j ) {
    a = a * i;
    i++;
}
```

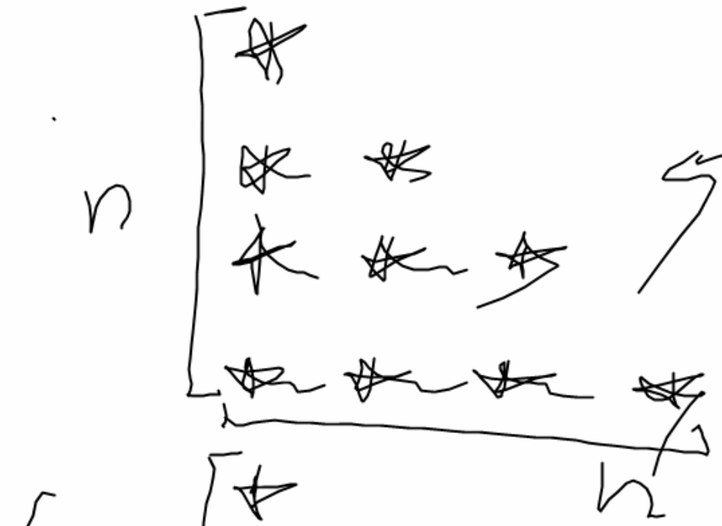



NO

```
while( i < j ) {
    ...
}
```

INPUT n

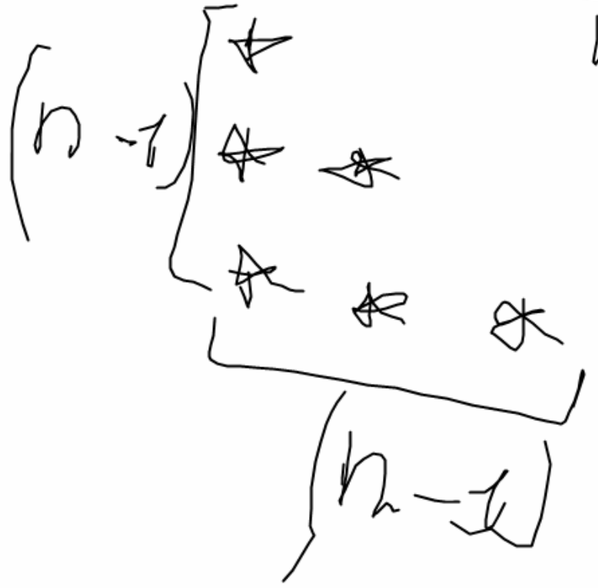
(n > 0)




CICLO(...)

CICLO(---)

n = n - 1;




CICLO(...) RIGA <= n

CICLO(...) COLONNA <= RIGA