```
3. Value = 1
```

4.

Where iteration algorithm:

$$k = 4m^2 N = 4 \times 3^2 < 1$$

 0
 0
 1
 2
 4×3^2

 1
 0
 4
 2
 4×3^2

 2
 0
 1
 2
 4×3^2
 V_0
 V_0

8. Considur a Simple cycle
$$u_1 \rightarrow u_2 \rightarrow \cdots \dots u_m \rightarrow u_1$$

The scan of weights in the Mira equals: $-(-n)^{p(u_1)} - (-n)^{p(u_2)}$
It p(u) is odd, then $-(-n)^{p(u_1)} \ge 0$
When the max privaty is odd, we have one term $-(-n)^d = n^d$
with
Every term britch Amalies privaty is behave $-n^{(d-1)}$ and $-n^{(d-1)}$
There are at most in terms.
 \therefore The sum of weights of a syste ariter max privaty odd is ≥ 0 .
 $- 5n$ the terms of weights of a syste ariter max privaty odd is ≥ 0 .
 $- 5n$ the data block at the first cycle version.
Any usinning strategy for Ts in the faulty gene cult even that
all explane thas the more $privity add$. This strategy will give
 $t(a) \ge 0$ the Mira.
 $- 5n$ the converse. Suppose we have a simple cycle $u_1 \rightarrow u_2 \rightarrow \cdots = u_n \rightarrow u_r$.
 $s + -(-n)^{t(n-1)} - (-n)^{t(n-1)} - \cdots -(-n)^{t(n-1)} > 0$
Then the max priority should be add.
 \cdots Winning strategy in Mira give withing all strategy in Barty genes.