multiplying
$$\leftarrow$$
 This is to cancel elements

factor $T(m) = 2 \times T(\frac{n}{2}) + \log(n)$

and $\text{term } 2' \times T(\frac{n}{2}) = 2 \times [2 \times T(\frac{n}{4}) + \log(\frac{n}{2})]$

3nd term $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

1

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

2 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

3 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

4 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

4 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

4 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

4 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

5 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

6 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

7 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

8 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{8}) + \log(\frac{n}{4})]$

9 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{4}) + \log(\frac{n}{4})]$

1 Individual $2' \times T(\frac{n}{4}) = 4[2 \times T(\frac{n}{4}) + \log(\frac{n}{4})]$

1 Individu