

TASK

Height-weighted Quick Union with Path Compression

OUTPUT

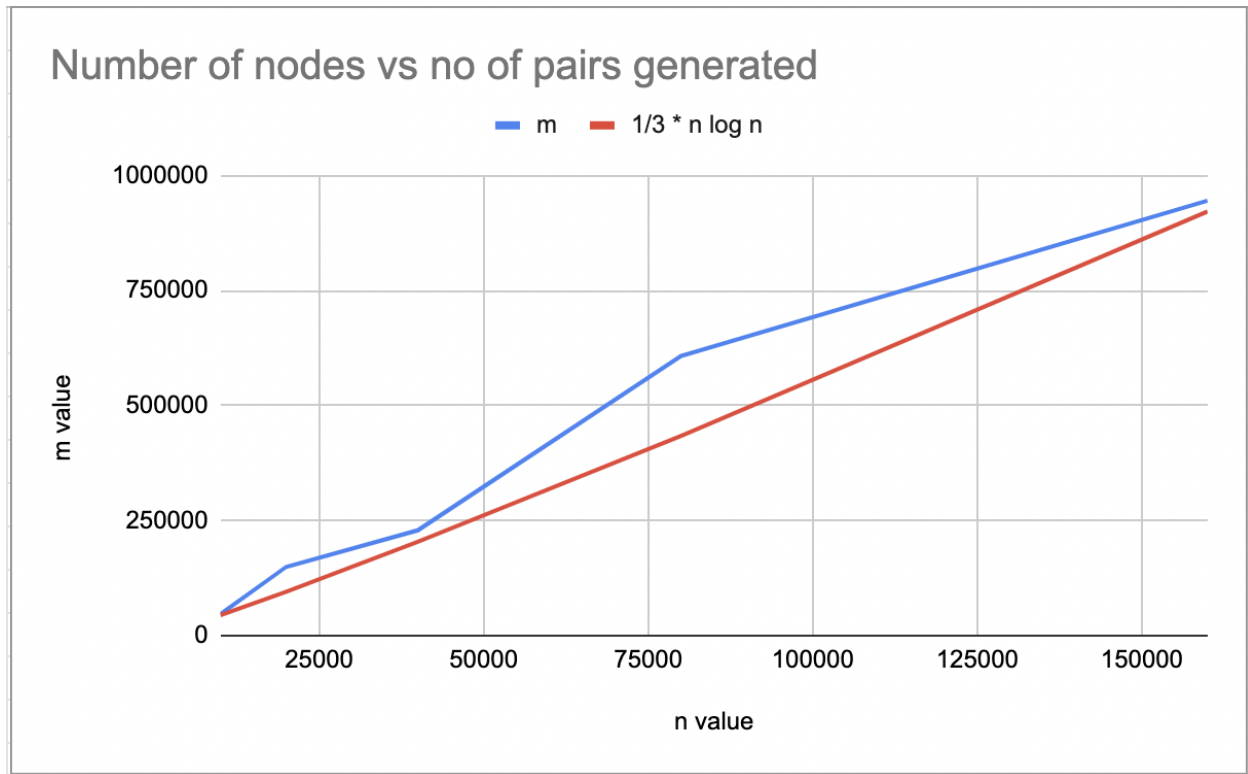
```
<terminated> New_configuration [Java Application] /U
n value: 10000 m value: 46521
n value: 20000 m value: 149339
n value: 40000 m value: 228777
n value: 80000 m value: 608025
n value: 160000 m value: 945607
```

RELATIONSHIP BETWEEN n AND m

On a trial and error basis and also looking at the similarity in graphs, I can say that the values of m are closer to $\frac{1}{3}$ rd of $n \log(n)$. So I can conclude that

n is directly proportional to m

EVIDENCE TO SUPPORT THE CONCLUSION AND GRAPHS



UNIT TESTS

