

Mid Exam - Questions: 12 & Time: 30 Minutes

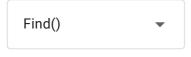
* Required

MCQs

The worst-case time (M union-find operations on a set of N objects) for a Weighted Quick Union with path compression is



Weighted Quick Union with path compression improves/effect which of the following method?



In binary search, we have an array A = [0,1,2,3,4,5,6]. Suppose we want to find "5". In how many iterations, we can find the value "5"?

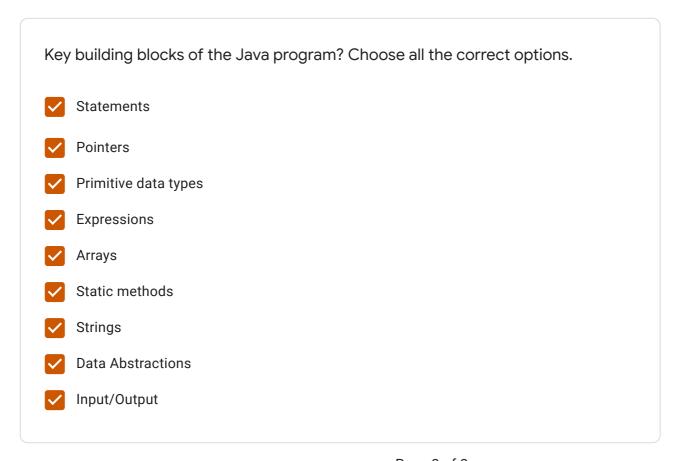


Linus Torvalds created the following
Linux
Git
Java
BitBucket
Github
We are running a Weighted Quick Union on three billion nodes. What will be the maximum depth of the tree?
Less than 3 billion / log(2) ▼
We assume "is connected to" is an equivalence relation. Choose all the correct options.
Reflexive: p is connected to q
Symmetric: if p is connected to q, then q is connected to q
Transitive: if p is connected to q and q is connected to r, then q is connected to r
Reflexive: p is connected to p
✓ Transitive: if p is connected to q and q is connected to r, then p is connected to r
Symmetric: if p is connected to q, then q is connected to p

What are the rul options?	les to describe a recursive method? Choose all the correct
Recursive me	ethods do not need a return statement
It has a base	case
Its calls shou	ıld not address subproblems that overlap.
Its calls mus	t address subproblems that are smaller
Quick Find is ba	sed on which approach? *
Eager	▼
	he tree in Weighted Quick Union is four, what is the minimum es in the network?
16	
	static method, its object is created automatically.
When we call a	statio in out to a solution of outon dutornationly.

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Page 2 of 2

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