CS3345 Exam 2

Question 5

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Show all of the trees before and after a union-by-size of roots 2 and 7.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| start | -2 | 0 | -3 | 2 | -2 | 2 | 4 | -4 | 7 | 7 | 7 |
| Union(find(2),find(7)) | -2 | 0 | 7 | 2 | -2 | 2 | 4 | -7 | 7 | 7 | 7 |