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Sorting Design Doc

Problem

-20 cheese sticks of different length

-Make an algorithm to sort these cheesesticks

Solution

Selection Sort – selects the smallest cheese stick and swaps it with the first digit

* Runtime O(n^2)

Bubble Sort- compares the first two and switches them to make it in order

* Runtime O(n^2)

Code:

Int [] array = {12, 5, 21, 53, 92, 73, 84, 59, 24, 19, 11, 32, 44, 63, 72, 81, 88, 97, 100}

-2 for loops

-temporary variable (a)

-j🡪a

-j+1🡪j