## Problem ID: 2

## Problem Name: Box stacker

## Description: Given a collection of boxes that are cube-shaped, how can we determine if the boxes can be safely stacked or not? Safe stacking requires that a box be stacked on top of another box that is at least 10% larger. If you are given a collection of numbers that represent the boxes that must be stacked e.g. {2, 35, 13, 4, 4.5, 100, 25} how can you determine is a single safe stack can be made?

## UB Number:

## Name:

<ADD YOUR **ONE PAGE** ANALYSIS AND PROPOSED SOLUTION HERE AND REMOVE THIS TEXT.>

<ADD YOUR FLOW CHART OR PSEUDOCODE HERE AND REMOVE THIS TEXT. NO ADDITIONAL TEXT SHOULD BE ON THIS PAGE EXCEPT FOR TEXT IN A FLOWCHART OR PSEUDOCODE ALGORITHM>