## Problem ID: 8

## Problem Name: No Roots Allowed

## Description: A mathematician has an unnatural fear of square roots, cube roots and fourth roots. He regularly publishes journal papers but cannot stand to see any numerical values in his work that have square roots, cube roots or fourth roots that are integers. For example, 16 could never appear in his work as the square root of 16 is 4, an integer. 17 would be fine though as the square root of 17 is 4.123, the cube root is 2.571 and the fourth root is 2.03. Given a journal paper made up of words and numbers (ignoring everything else) how can you determine if it is OK to be published?

## 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>