## JD: 22141026

## 1.0

Here the mod of integer is taken. It it is zero then it is even, or else odd.

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Using split function and making alist we can retrieve operators and integers. Using if else we can determine whether the operator is +,-,\*\*./.

## 2.

The given bubble sort code has time complexity of O(n). In best case see nerlo, the input is sorted on according order, so to get O(n), we need to first check if the given input is already sorted on not. Check if the given input is already sorted on not. If it is sorted, we use flag to stop it from going If it is sorted, we use flag to stop it from going. To bubble sort rested loop algorithm.

To sort the marks and ID we need to use selection sort for least number of sorting. Here, the max value is founded and replaced it is put in descending index numbers.

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Here, place and time of the train's departure is added separately in two different lists. Using, bubble sort, we can sort the input in ascending order.