**Problems**

|  | 1. **My Money My Shares**   **Ram , sham and rahim went shopping for apples. They bought apples worth 100 rupees. Ram paid 50 rupees, sham paid 30 rupees and rahim paid 20 rupees. Each apple is tagged with its weight on it. Write a program to distribute apples such that the quantity of apple they get is in best proportionate to the amount they paid.**  **Note : you cannot cut an apple into pieces and have to allocate the whole apple to one of them.**  **For example :**  **If there is 8 apple of 400g , 100g , 400g , 300g , 200g , 300g ,100g , 200g then we can distribute them as**  **Ram : 400g , 400g , 200g (total 1kg , 50%)**  **Sham : 300g , 300g (tatal 600g , 30%)**  **rahim , 200g , 100g , 100g (tatal 400g , 20%)**  **Expected program output :**  **run distribute\_apple**  **Enter apple weight in gram (-1 to stop ) : 400**  **Enter apple weight in gram (-1 to stop ) : 100**  **Enter apple weight in gram (-1 to stop ) : 400**  **Enter apple weight in gram (-1 to stop ) : 300**  **Enter apple weight in gram (-1 to stop ) : 200**  **Enter apple weight in gram (-1 to stop ) : 300**  **Enter apple weight in gram (-1 to stop ) : 100**  **Enter apple weight in gram (-1 to stop ) : 200**  **Enter apple weight in gram (-1 to stop ) : -1**  **Distribution Result :**  **Ram : 400, 400, 200**  **Sham : 300 , 300**  **Rahim : 200 , 100 , 100** |  |
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1. [**Reverse Integer**](https://leetcode.com/problems/reverse-integer/)
2. [**Add Binary**](https://leetcode.com/problems/add-binary/)
3. [**Valid Parentheses**](https://leetcode.com/problems/valid-parentheses/)
4. [**Single Number**](https://leetcode.com/problems/single-number/)