Potter Kata

Description

Imagine a bookstore that is selling the seven books from the Harry Potter Series. Each book has a standard price of $8.00, however, if you buy more than one of the series at a time you get a discount. Buying multiples of the same book does not earn a discount though.

Number of Books	Discount Amount
2	5%
3	10%
4	15%
5	25%
6	30%
7	35%

Example

Book 1 - 1 copies
Book 2 - 2 copies
Book 3 - 2 copies
Book 4 - 2 copies
Book 5 - 2 copies
Book 6 - 1 copies

(5 * $8 * .75) * 2 = $60

Requirements

Be able to calculate the optimal customer discount for any set of books from this series.

Keep in mind that larger percentages are not always better as can be seen in the example above. In that case it was better to keep all the books at 75% instead of having some at 70% and some at 85%.

Provided by:

Source: http://codingdojo.org/cgi-bin/wiki.pl?KataPotter