# Problem 2 – Bookstore

*Maryika's friend is now ready to go shopping.*

Mariyka gave her friend a **certain amount of money** and a **wish list,** containing information about each book including **book name, author and price**. Also she knows that the shopping cart in the bookstore has a **defined** **capacity** which **cannot be exceeded**. Despite the number of books in her list, the books which she'll eventually buy **depends** on the **cart's capacity** and of course **the budget**. If the capcity is **less** than the initial number of books, she buys only the **cheapest books** from the list **to fill the cart** and if there is **enough space** in the cart she buys **all** of the books from the list. Every time she puts a book in the cart, she **adds its price** to her **final sum**.

Before she goes to the pay desk, she checks if her initial budget will be **enough** to **cover the sum**. If it is **less than the sum**, she **returns** some books from the cart, **starting from the cheapest** ones **until her budget is enough**. Also if the final number of books is **five or more**, she gets a **50% discount** on the **cheapest** book and eventually this price is added to the final sum.

Write a JavaScript program, which **calculates her total sum** and **prints the purchased books**.

### Input

You will receive **one argument** – an **array of elements,** containing **the cart capacity,** Ellie's **budget** and her **shopping list, with information about each book – the book's name, the author of the book and the price of the book as shown in the examples.**

### Output

Print the **books** she has purchased, **each on a new line, sorted alphabetically** and the **final sum** she has to pay; numbers must be **formatted** to the **second** **delimiter**. Use the following formatting:

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| --- |
| **Books purchased:**  **-> Book: "{book name}"; Author: {author}; Price: {price}**  **Final sum: {total sum} lv.** |

### Examples

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| **Input** |
| [6, 150,  [['To kill a mockingbird', 'Harper Lee', '19.25'],  ['1984', 'George Orwell', '25.05'],  ['Dreamcatcher', 'Stephen King', '20.35'],  ['The Three Musketeers', 'Alexander Dumas', '34.55'],  ['Don Quixote', 'Miguel de Cervantes', '15.55'],  ['East of Eden', 'John Steinbeck','22.45']] ] |
| **Output** |
| Books purchased:  -> Book: "1984"; Author: George Orwell; Price: 25.05  -> Book: "Don Quixote"; Author: Miguel de Cervantes; Price: 7.78  -> Book: "Dreamcatcher"; Author: Stephen King; Price: 20.35  -> Book: "East of Eden"; Author: John Steinbeck; Price: 22.45  -> Book: "The Three Musketeers"; Author: Alexander Dumas; Price: 34.55  -> Book: "To kill a mockingbird"; Author: Harper Lee; Price: 19.25  Final sum: 129.42 lv. |
| **Input** |
| [3, 70,  [['War and Peace', 'Leo Tolstoy', '28.99'],  ['The Help', 'Kathryn Stockett', '12.75'],  ['Pride and Prejudice', 'Jane Austen', '17.50']] ] |
| **Output** |
| Books purchased:  -> Book: "Pride and Prejudice"; Author: Jane Austen; Price: 17.50  -> Book: "The Help"; Author: Kathryn Stockett; Price: 12.75  -> Book: "War and Peace"; Author: Leo Tolstoy; Price: 28.99  Final sum: 59.24 lv. |
| **Input** |
| [2, 40,  [['Little Women', 'Louisa May Alcott', '24.50'],  ['The Cloud Atlas', 'David Mitchell', '18.20'],  ['Jane Eyre', 'Charlotte Bronte', '13.65'],  ['The Pilgrim\'s Progress', 'John Bunyan', '16.70'],  ['The Scarlet Letter', 'Nathaniel Hawthorne', '14.25']] ] |
| **Output** |
| Books purchased:  -> Book: "Jane Eyre"; Author: Charlotte Bronte; Price: 13.65  -> Book: "The Scarlet Letter"; Author: Nathaniel Hawthorne; Price: 14.25  Final sum: 27.90 lv. |