C++ Fundamentals Exam

The following tasks should be submitted to the SoftUni Judge system.

Task 3 – Pet Exhibition

Several pets are competing in an exhibition. They receive different scores from the judges. Your task is to write a program which prints the pets' **names**, who are still part of the exhibition, ordered from best to worst by score.

Write a **class Pet** with the following **fields**:

- **name**
- **age**
- **score**

Create a vector/list of **Pet**s where you can put the information for each participant.

- If the pet's age is **greater than or equals 12**, their score **increases with 2.5 points**.
- If the pet's score is **lower than 4**, the pet is disqualified from the exhibition (removed from the vector)

Input

On the **first line**, you are given a number of participants - **an integer**.

On the **following lines**, you are given:

- **name**: string
- **age**: int
- **score**: double - **[0.00...10.00]**

Output

- On the **first line** – print the pet's **names** from best to worst **scoring.**
    - If two or more pets have the **same result**, priority in the order has the one **entered first** in the list.

Note: All the numbers are positive.

Examples

Input	Output	Comments
6 Lisa 12 2 Sharo 4 2.5 Poki 3 6 Bari 13 3.5 Erik 7 7 Harry 9 3	Erik Poki Bari Lisa	**There are 6 participants and information for each of them is added.** **If a pet is or is older than 12, 2.5 points are added to their score.** **Lisa is 12 -> Lisa's score increases to 2 + 2.5 = 4.5** **Bari is 13 -> Bari's score increases to 3.5 + 2.5 = 6** **If a pet has a score below 4 points, it should be removed from the list.** **Sharo's score is 2.5 (2.5 < 4) -> the participant is removed from the list.** **Harry's score is 3 (3 < 4) -> the participant is removed from the list.**

		The pets are sorted by their score (from best to worst). **Poki and Bari have the same result but the first is the one entered first in the list.** **The final result is: Erik Poki Bari Lisa**
5 Charlie 14 8 Adam 11 5 Rex 2 4 Sara 1 3 Tom 5 10	Charlie Tom Adam Rex	