# 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 |  |