# Problem 1 – Shooting Range

You are **given targets**, each with a value to aim for. Each target can be **hit only once**. Consecutive hits **increment a multiplier** that **initially starts at 1**. Note that you are **not allowed to miss** in order to reset the multiplier. A hit on a target gives points equal to the **target value multiplied by the current multiplier**. Print all **unique** **ways** to **achieve a given score** from the targets.

#### Input

* On the first input line you will be given the the targets with their values.

#### Output

* Print all **unique** sequences of target hits that sum up to the score to achieve.

#### Constraints

* The count of targets will be an integer in the range [**1…15**].
* Each target value will be an integer in the range [**1…5**].
* Score to achieve will be an integer in the range [**1…1000**].
* Time limit: **100 ms**. Allowed memory: **32 MB**.

#### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 1 2 3  10 | 3 2 1 | The initial multiplier is 1. Consecutive hits increment it by 1.  (3 \* 1) + (2 \* 2) + (1 \* 3) = 10 |

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| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 1 2 3 4 5  10 | 2 4  3 2 1  4 3 | (2 \* 1) + (4 \* 2) = 10  (3 \* 1) + (2 \* 2) + (1 \* 3) = 10  (4 \* 1) + (3 \* 2) = 10 |

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 1 1 1  4 |  | Score of 4 cannot be achieved. |