**Algorithms Advanced with C#: Exam**

**3. Medivac**

The medivac is one of the transport units that you can use. Each medivac has different storage capacity. Each unit uses different amount of that capacity, as an example a tank requires 4 units of space while a marine requires just 1. You will be given different units, with their capacity requirement and the urgency with which the unit needs to be transferred to the battlefield. Your task is to fill the medivac in the most optimal way which is to gather the highest urgency value.

## Input

* The first line will be the medivac capacity
* On the next lines until you reach the **Launch** command you will read the units with their capacity and urgency rating in the following format **{unit} {capacity} {urgencyRating}**

## Output

* On the first line print the capacity used
* On the second line print the urgency rating achieved
* On the next lines the units taken in ascending order

## Constraints

* The medivac capacity is an integer between **[0… 100]**
* The unit, capacity and the ratings are integers

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4  2 2 3  3 2 1  0 1 3  Launch | 3  6  0  2 |
| 18  3 5 30  6 8 120  7 7 10  2 0 20  1 4 50  0 5 80  8 2 10  Launch | 17  270  0  1  2  6 |

“Goodness is about what you do. Not who you pray to.” ― Terry Pratchett, Snuff