☆ Trucker's profit

A truck owner transports ad-hoc cargo. Before he starts, he gets a list of cargo available which includes a unique cargo number, weight (in kgs) of the cargo and the profit it will earn him. He can pick and choose which cargo he wants to transport to maximize his profit. He has a maximum limit of weight he can carry on his truck.. This limit is provided as an input. For the provided input list of cargo, help the truck owner to achieve maximum profit. Return a list of unique cargo numbers that the trucker should carry from the provided list such that it'd give him maximum profit and also, what the maximum profit would be.

Note: It is possible that the trucker can transport nothing and his profit is 0. In that case, return an array with only 0 in it.

Constraints:
Cargo numbers are unique and integers.
Weight and profit are integers.
In your output, the order of the unique cargo numbers should be the order in which they appear in the input list.
All integers are below 10^5

Input Format:
Maximum weight the truck can carry
Total number of cargo items
Total number of entries per cargo item. This input is fixed to 3 (unique number, weight and profit)
List of cargo details (Format: unique cargo number, weight and profit separated by spaces)

Example Input:

```
300             // Max weight limit of the truck
3               // Number of items in the cargo
3               // Entries per cargo item, fixed to 3.
38 130 500      // First element is the Unique Cargo Number, second is the weight of the cargo and third is the profit that this cargo will give
21 280 1800
13 120 1500
```

Example Output:

```
38
13
2000
```

Explanation:
Given truck can carry maximum of 300 kgs, by choosing cargo 38 and 13, trucker can maximize profit (2000).

YOUR ANSWER

Goldman Sachs Online Assessment | 32m : 21s to test end | 1/2 Attempted | Smart Coder

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Original code | Java 8

```
import ↔;

public class Solution {


    /*
     * Complete the findTruckCargo function below.
     */
    static int[] findTruckCargo(int maxCargoWeight, int[][] cargoList) {
        /*
         * Write your code here.
         */

    }


    private static final Scanner scan = new Scanner(System.in);

    public static void main(String[] args) throws IOException {
        BufferedWriter bw = new BufferedWriter(new FileWriter(System.getenv("OUTPUT_PATH")));

        int maxCargoWeight = Integer.parseInt(scan.nextLine().trim());

        int cargoListRows = Integer.parseInt(scan.nextLine().trim());
        int cargoListColumns = Integer.parseInt(scan.nextLine().trim());

        int[][] cargoList = new int[cargoListRows][cargoListColumns];

        for (int cargoListRowItr = 0; cargoListRowItr < cargoListRows; cargoListRowItr++) {
            String[] cargoListRowItems = scan.nextLine().split(" ");

            for (int cargoListColumnItr = 0; cargoListColumnItr < cargoListColumns; cargoListColumnItr++) {
                int cargoListItem = Integer.parseInt(cargoListRowItems[cargoListColumnItr].trim());
                cargoList[cargoListRowItr][cargoListColumnItr] = cargoListItem;
            }
        }

```

```
            bw.write(String.valueOf(res[resItr]));
46
47          if (resItr != res.length - 1) {
48              bw.write("\n");
49          }
50      }
51
52      bw.newLine();
53
54      bw.close();
55  }
56  }
57
```

Line: 19 Col: 1

Test against custom input

Run Code | Submit code & Continue

(You can submit any number of times)

Download sample test cases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*