Complaint Drawer

You are the new Chief Legal Officer of Acme company, and the CEO calls you and tasks you with getting some information about complaints concerning some Acme products. Each complaint has a ranking of products that bothered the customer the most, with information about what bothered him exactly. The CEO wants to know the products that have either been the main, secondary or rank third when it comes to causing the biggest trouble to the customer.

- The previous CLO has stored the different complaints in drawers, each complaint is composed of multiple files, drawers contain files of exactly one complaint. A drawer is represented by a line of input.
- A file contains the following information:
    - Information about the product that the customer complained about, and what bothered him, we only care about the product's id.
    - A reference to the next file:
        - The reference is the order of the file in the drawer from left to right, where the first file has an order of 1
        - The last element has a reference of -1
- The reference to the next file creates a chain of files, where the first file concerns the product that bothered the customer the most, and the last file concerns the file that bothered the customer the least.
- Each file is represented as follows: (next_file,product_id). Files are separated by ';'.
- To help you with the process, you decide to assign weights to each rank a product can have in the complaint:
    - 1st: 4
    - 2nd: 3
    - 3rd: 2
    - 4th: 1
    - 5th and after: 0.5
- Then you get the desired products based on the score they get. If two products have the same score the product with the smallest id value takes precedence (200 then 300).
- A product id cannot repeat two times in one complaint.

Task: Provide the CEO with the sum of the most relevant product ids.

Example:

(2,100);(4,400);(-1,200);(3,1000)
(3,200);(-1,500);(4,100);(2,2200)
(4,100);(-1,4100);(2;4000);(3;1000)
Output: 1300
The relevant product_ids are:

1. 100: 4 + 3 + 4
2. 200: 1 + 4
3. 1000: 2 + 3

1000 comes after 200 even though they get the same score because 1000 > 200.