# Problem 8 – Computer Shop

Write a PHP program that reads several **lines of information about products**, **filters the products in a given price range** and prints them in HTML **<div></div>** tags.

You will be given a **list**, **minimum price**, **maximum price**, **filter** and **order**. You must print **only the products in the price range between minimum and maximum price**. The products' **type should also correspond to the given filter**. Finally, the remaining products should be **sorted by price** is **ascending**/**descending** order. If there **are equal prices**, a **secondary sorting** should be performed by **id** in ascending order.

### Input

The input data should be read from an **HTTP GET request**. The product list will come from the **textarea 'list'**, holding each product on a separate line. The minimum and maximum price will come from input fields, respectively **'minPrice'** and **'maxPrice'**. The filter will come from the input field **'filter'**. The order will come from the input field **'order'**.

### Output

Print each product with a price in the given range (inclusive) and with a type corresponding to the type filter. Each product should be printed in its own **<div class="product" id="product#"></div>** tags. The **id** is the **number of the product in order of appearance**. The product's name should be printed in **<h2></h2>** tags. The components should be printed as list items **<li class="component"></li>** in an unordered list **<ul></ul>**. The price should be printed in **<span class="price"></span**> tags. The output should be exactly like in the example below. Ensure your output is properly encoded (use the **htmlspecialchars()** function).

### Constraints

* The product type will be either **'desktop'** or **'laptop'**.
* The filter will hold one of the following values: **'desktop'**, **'laptop'**, **'all'**.
* The products will be in the format **[name] [type] [components] [price]**.
* The components will be **comma + space** separated.

### Examples

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| **Input** | | | | | |
| minPrice | | 590.00 |  | filter | desktop |
| maxPrice | | 1600.00 |  | order | ascending |
| list | SONY VAIO SVF13N1X2ES | laptop | INTEL CORE i5-4260U, 4 GB RAM, INTEL HD GRAPHICS 5000 | 2399.00  PACKARD BELL IMEDIA S2185 (SFF) | desktop | INTEL CELERON N2815 Dual Core, 4 GB RAM, INTEL HD GRAPHICS | 369.00  ACER ASPIRE Z3-600 | desktop | AMD QUAD-CORE A4-5000 1.50 GHz, 4 GB RAM, AMD RADEON HD 8330 | 1399.00  APPLE iMAC Z0MQ00071/BG | desktop | INTEL CORE i7-4770T, 16 GB RAM, NVIDIA GEFORCE GT 750M | 2949.00  ACER ASPIRE V5-123-12104G50NSS | laptop | INTEL CELERON 1007U, 2 GB RAM, INTEL HD GRAPHICS | 489.00  ACER ASPIRE XC-605 | desktop | INTEL PENTIUM 2117U, 4 GB RAM, INTEL HD GRAPHICS | 749.99  DELL INSPIRON 3847/476756/477784 | laptop | Intel Core i5-4510U, 6 GB RAM, NVIDIA GeForce 9800GT | 1049.49 | | | | |

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| **Output** |
| <div class="product" id="product6"><h2>ACER ASPIRE XC-605</h2><ul><li class="component">INTEL PENTIUM 2117U</li><li class="component">4 GB RAM</li><li class="component">INTEL HD GRAPHICS</li></ul><span class="price">749.99</span></div><div class="product" id="product3"><h2>ACER ASPIRE Z3-600</h2><ul><li class="component">AMD QUAD-CORE A4-5000 1.50 GHz</li><li class="component">4 GB RAM</li><li class="component">AMD RADEON HD 8330</li></ul><span class="price">1399.00</span></div> |