**Problem #1**

**Base Conversion**

In this problem, your input will be 3 positive numbers *n, s (1 < s < 11)* and *d (1 < d < 11)*. You need to convert the number *n* from source base *s* to destination base *d* and output the converted number. For example, in the first sample, the output is 102, because (123)4 = (102)5.

You can assume that in the input, all the digits of *n* will be less than *s* and *n* will contain at most 9 digits.

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| --- | --- |
| **Sample Input(s)** | **Corresponding Output(s)** |
| 123 4 5  123 5 5  123 10 2  1011 2 4  1011 2 10 | 102  123  1111011  23  11 |

**Problem #2**

**Max Count**

In this problem, your input will be a positive number *n (0 < n < 10100)*. You need to output the number of occurrences of the largest digit of *n* in *n*. For example, in the first sample, the output is 2, because the largest digit of 123322211 is 3 and 3 occurs twice in 123322211. (Input reading hint: You can read the input line character by character in a loop until you reach ‘\n’)

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| --- | --- |
| **Sample Input(s)** | **Corresponding Output(s)** |
| 123322211  173625  8687557576676885  11111111111111111111111111111111  2  11223311122233 | 2  1  4  32  1  4 |