

Padlock key decipher

In order to open a special padlock that we have you need to parse and decipher a string of letters and numbers

Padlock

Our padlock is unlocked by entering 4 unique symbols (numbers and letters)

Cipher text

The cipher text consist of multiple repetitions of scrambled numbers and letters.

For example

```
ahdscajsasjfdksdjfkadjkfdjdfjdfddjddjddjddjdfjjjffjjfj12493932199391919199493943919191
```

Decryption

In order to decrypt the cipher text you need to find the 4 characters that have the highest number of occurrences in the cipher text and sort them based on the number of times that they are present in the cipher text. The resulting string is the key to the padlock. In case of multiple characters having the same number of occurrences the order of the letters in the cipher text should be kept in the deciphered message.

Example

The password stored in the cipher text:

```
ahdscajsasjfdksdjfkadjkfdjdfjddjddjddjddjdfjjjfjjfj12493932199391919199493943919191
```

is

```
jd9f
```

The password stored in the cipher text:

```
dddbbbccccffaaa
```

is

```
dbcf
```

Submission

You are required to submit a `.zip` file or a link to a public repository.

`.rar` files will not be accepted