Problem 2 - Emoji Detector

Problem for exam preparation for the <u>Programming Fundamentals Course @SoftUni</u>.

Submit your solutions in the SoftUni judge system at https://judge.softuni.org/Contests/Practice/Index/2302#1.

Your task is to write a program that extracts emojis from a text and find the threshold based on the input.

You have to get your **cool threshold**. It is obtained by **multiplying all** the digits found in the input. The cool threshold could be a **huge number**, so be mindful.

An emoji is valid when:

- It is surrounded by 2 characters, either "::" or "**"
- It is at least 3 characters long (without the surrounding symbols)
- It starts with a capital letter
- Continues with lowercase letters only

```
Examples of valid emojis: ::Joy::, **Banana**, ::Wink::

Examples of invalid emojis: ::Joy**, ::fox:es:, **Monk3ys**, :Snak::Es::
```

You need to count **all valid emojis** in the text and calculate their **coolness**. The coolness of the emoji is **determined** by summing all the **ASCII values of all letters** in the emoji.

```
Examples: :: Joy:: - 306, **Banana** - 577, :: Wink:: - 409
```

You need to print the result of the cool threshold and, after that to take all emojis out of the text, count them and print **only the cool ones** on the console.

Input

On the single input, you will receive a piece of string.

Output

• On the first line of the output, print the obtained Cool threshold in the format:

```
"Cool threshold: {coolThresholdSum}"
```

On the following line, print the count of all emojis found in the text in format:

```
"{countOfAllEmojis} emojis found in the text. The cool ones are:
{cool emoji 1}
{cool emoji 2}
...
{cool emoji N}"
```

Constraints

There will always be at least one digit in the text!

Examples

Input	Output
Input	Output



© SoftUni – about.softuni.bg. Copyrighted document. Unauthorized copy, reproduction or use is not permitted.

















In the Sofia Zoo there are 311 animals in total! Cool threshold: 540 ::Smiley:: This includes 3 **Tigers**, 1 ::Elephant:, 12 4 emojis found in the text. **Monk3ys**, a **Gorilla::, 5 ::fox:es: and 21 different The cool ones are: types of :Snak::Es::. ::Mooning:: **Shy** ::Smiley:: **Tigers**

Comments

::Mooning::

You can see all the valid emojis in green. There are various reasons why the rest are not valid, examine them carefully. The "cool threshold" is $\frac{3*1*1*3*1*1*2*3*5*2*1 = 540$.

::Smiley:: -> 83 + 109 + 105 + 108 + 101 + 121 = 627 > 540 -> cool

Tigers -> 84 + 105 + 103 + 101 + 114 + 115 = 622 > <mark>540</mark> -> cool

::Mooning:: -> 77 + 111 + 111 + 110 + 105 + 110 + 103 = 727 > 540 -> cool

Shy -> 83 + 104 + 121 = 308 < 540 -> not cool

In the end, we print the count of all valid emojis found and each of the cool ones on a new line.

Input	Output
5, 4, 3, 2, 1, go! The 1-th consecutive banana-eating contest has begun! ::Joy:: **Banana** ::Wink:: **Vali** ::valid_emoji::	Cool threshold: 120
	4 emojis found in the text.
	The cool ones are:
	::Joy::
	Banana
	::Wink::
	Vali
Input	Output
It is a long established fact that 1 a reader will be	Coolthreshold: 17496
distracted by 9 the readable content of a page when	1 emojis found in the text.
	= 0
looking at its layout. The point of using <pre>::LoremIpsum::</pre>	The cool ones are:
looking at its layout. The point of using <pre>::LoremIpsum::</pre> is that it has a more-or-less normal 3 distribution of 8	
is that it has a more-or-less normal 3 distribution of 8	

















You can see **English** is a valid emoji, but the sum of ASCII is not bigger than the cool threshold. That's why we don't print anything in the end.

JS Examples

Input	Output
[("In the Sofia Zoo there are 311 animals in total!	Cool threshold: 540
<pre>::Smiley:: This includes 3 **Tigers**, 1 ::Elephant:, 12 **Monk3ys**, a **Gorilla::, 5 ::fox:es: and 21</pre>	4 emojis found in the text.
different types of :Snak::Es::. ::Mooning:: **Shy**"])	The cool ones are: ::Smiley::
	Tigers
	::Mooning::

Comments

You can see all the valid emojis in green. There are various reasons why the rest are not valid, examine them carefully. The "cool threshold" is 3*1*1*3*1*1*2*3*5*2*1 = 540.

In the end, we print the count of all valid emojis found and each of the cool ones on a new line.

Input	Output
(["5, 4, 3, 2, 1, go! The 1-th consecutive banana-	Cool threshold: 120
eating contest has begun! ::Joy:: **Banana** ::Wink::	4 emojis found in the text.
Vali ::valid_emoji::"])	The cool ones are:
	::Јоу::
	Banana
	::Wink::
	Vali
Input	Output
(["It is a long established fact that 1 a reader will	Coolthreshold: 17496
be distracted by 9 the readable content of a page when	1 emojis found in the text.
	I chiojis round in the text.













::LoremIpsum:: is that it has a more-or-less normal 3 distribution of 8 letters, as opposed to using 'Content here, content 99 here', making it look like readable **English**."])

Comments

You can see **English** is a valid emoji, but the sum of ASCII is not bigger than the cool threshold. That's why we don't print anything in the end.















