## Problem 3 - Crypto Blockchain

The next task for our hero Sam is to hack the main top-secret facility server, used to manage all of Nikoladze's social media. He's already reached the server, and now it's time to decrypt the information on it to see if it's valuable or not. Luckily, you're Sam's top unpaid intern, and he has tasked you with figuring out the algorithm to decrypting the data. So, plug in some headphones and put on some hacker music. It's time to decrypt the Crypto Blockchain.

The Crypto Blockchain is a special sequence of characters, which is comprised of several lines. Each line is always 16 characters long. Inside these lines, there are several Crypto Blocks and some garbage data around them. Here's what a sample Crypto Blockchain looks like:

OktJULP\{FT\*n\*uk 123120137130v}M OoHw [1291201341 34r\wkR]00000000

The first step is to condense the Crypto Blockchain into one line.

The next step is to search for special substrings inside it, called Crypto Blocks. Each valid Crypto Block has the following characteristics:

- It's enclosed in either brackets {} or square brackets [].
  - If it contains mixed opening/closing brackets (such as { ] or [ }, ignore that Crypto Block entirely)
- It contains any printable ASCII character inside it
- It contains at least three digits in a row.
  - If the number of digits it contains cannot be split into threes (e.g. 8 digits), ignore the Crypto Block.

We're looking for the digits inside each Crypto Block, which are actually encoded ASCII characters. Each character is represented by 3 digits (converted to a number), and the sequence of digits can be split into threes to figure out the sequence of characters present in that crypto block.

Looking at these characteristics, we can look at the above expanded Crypto Blockchain and find all the Crypto **Blocks** (green represents the entire block, yellow represents the digits we're looking for):

OktJULP\\\ FT\*n\*uk\_123120137130v\\\ MOoHw [129120134134r\wkR] 00000000

Once we find the digits in one crypto block, we split them into threes and convert them to a string of characters by subtracting the length of the entire crypto block from each number individually.

The final step is performing this algorithm over all the crypto blocks individually and concatenating the result.

### Input

- On the first line of input, you will receive n the number of rows the room will consist of
- On the next **n lines**, you will receive the **Crypto Blockchain**, a sequence of **16** characters.

#### Output

Print the **decrypted** and **concatenated** text.

#### **Constraints**

- Crypto blocks will always contain zero or one sequence of numbers.
- There will **always** be a **valid crypto block** in each crypto blockchain.





















# **Examples**

Input	Output	Comments
4 OktJULP\{FT*n*uk _123120137130v}M OoHw_[1291201341 34r`wkR]00000000  7 [>K.1 ~T11715215 2153081069148155 138z]#YQej@<+; [ 1370551271241371 24056]aG\'# J qf L y!111632]!u<@: <-&D00000000000000	Psst, over here!	Block 1: {FT*n*uk_123120137130v} Numbers: 123, 120, 137, 130. Crypto Block Length: 23 Subtracted ASCII codes: 100, 97, 114, 107 → dark
		Block 2: [129120134134r`wkR]  Numbers: 129, 120, 134, 134. Crypto Block Length: 19  Subtracted ASCII codes: 110, 101, 115, 115 → ness
		Block 1: [>K.1 ~T117152152153081069148155138z]  Numbers: 117, 152, 152, 153, Crypto Block Length: 37  Subtracted ASCII codes: 80, 115, 115, 116, → Psst, ove
		Block 2: [137055127124137124056]  Numbers: 137, 55, 127, 124, Crypto Block Length: 23  Subtracted ASCII codes: 114, 32, 104, 101, → r here!
		Block 3: {L y!111632]  Brackets are different → ignore
4 [099134134130055 142127]{12614506 1091102089061131 140}[128121111]0	Look what >I< found	Block 1: [099134134130055142127]  Numbers: 99, 134, 134, 130, Crypto Block Length: 23  Subtracted ASCII codes: 76, 111, 111, 107, → Look wh
		Block 2: {126145061091102089061131140}  Numbers: 126, 145, 61, 91, Crypto Block Length: 29  Subtracted ASCII codes: 97, 116, 32, 62, → at >I< fo
		Block 3: [128121111]  Numbers: 128, 121, 111. Crypto Block Length: 11  Subtracted ASCII codes: 117, 110, 100, → und















