



# Hex Color Code ☆

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## Problem

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CSS colors are defined using a hexadecimal (HEX) notation for the combination of Red, Green, and Blue color values (RGB).

Specifications of HEX Color Code

- It must start with a '#' symbol.
- It can have **3** or **6** digits.
- Each digit is in the range of **0** to **F**. (**1, 2, 3, 4, 5, 6, 7, 8, 9, 0, A, B, C, D, E** and **F**).
- **A – F** letters can be lower case. (**a, b, c, d, e** and **f** are also valid digits).

### Examples

Valid Hex Color Codes

```
#FFF
#025
#F0A1FB
```

Invalid Hex Color Codes

```
#fffabg
#abcf
#12365erff
```

You are given **N** lines of CSS code. Your task is to print all valid Hex Color Codes, in order of their occurrence from top to bottom.

CSS Code Pattern

```
Selector
{
    Property: Value;
}
```

### Input Format

The first line contains **N**, the number of code lines.

The next **N** lines contains CSS Codes.

### Constraints

$$0 < N < 50$$

### Output Format

Output the color codes with '#' symbols on separate lines.

### Sample Input



```
11
#BED
{
    color: #FfFdF8; background-color:#aef;
    font-size: 123px;
    background: -webkit-linear-gradient(top, #f9f9f9, #fff);
}
#Cab
{
    background-color: #ABC;
    border: 2px dashed #fff;
}
```

### Sample Output

```
#FfFdF8
#aef
#f9f9f9
#fff
#ABC
#fff
```

### Explanation

#BED and #Cab satisfy the Hex Color Code criteria, but they are used as selectors and not as color codes in the given CSS.

Hence, the valid color codes are:

```
#FfFdF8
#aef
#f9f9f9
#fff
#ABC
#fff
```

**Note:** There are no comments ( // or /\* \*/) in CSS Code.

Python 3



```
1 import re, sys
2 [print(j) for i in sys.stdin for j in re.findall('[\s:](#[a-f0-9]{6}|#[a-f0-9]{3})', i, re.I)]
3
4
```