Hex Color Code

Problem Statement

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. (i.e. 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, A, B, C, D, E and F).
- A-F letters can be in lower case too. (i.e. 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

First line contains, integer N.
Next N lines contain, CSS Code.

Constraints

$0 < N < 50$

Output Format

Output colour codes with '#' in 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, valid color codes are:

#FfFdF8

#aef

#f9f9f9

#fff

#ABC

#fff

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