Hex Color Code

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.