

# 1. Hex Color Code

09 June 2025 08:55 AM

## Hex Color Code

HackerRank

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;
```

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```
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.

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```

1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2  # Enter your code here. Read input from STDIN. Print output to STDOUT
3  import re
4
5  for _ in range(int(input())):
6      matches = re.findall(r'?:?\.([0-9a-fA-F]{6}|[0-9a-fA-F]{3})', input())
7      if matches:
8          print(*matches, sep='\n')
9

```