

## 1472. Design Browser History

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You have a **browser** of one tab where you start on the `homepage` and you can visit another `url`, get back in the history number of `steps` or move forward in the history number of `steps`.

Implement the `BrowserHistory` class:

- `BrowserHistory(string homepage)` Initializes the object with the `homepage` of the browser.
- `void visit(string url)` Visits `url` from the current page. It clears up all the forward history.
- `string back(int steps)` Move `steps` back in history. If you can only return `x` steps in the history and `steps > x`, you will return only `x` steps. Return the current `url` after moving back in history **at most** steps.
- `string forward(int steps)` Move `steps` forward in history. If you can only forward `x` steps in the history and `steps > x`, you will forward only `x` steps. Return the current `url` after forwarding in history **at most** steps.

### Example:

**Input:**  
["BrowserHistory", "visit", "visit", "visit", "back", "back", "forward", "visit", "forward", "back", "back"]  
[["leetcode.com"],["google.com"],["facebook.com"],["youtube.com"],[1],[1],[1],["linkedin.com"],[2],[2],[7]]

**Output:**  
[null,null,null,null,"facebook.com","google.com","facebook.com",null,"linkedin.com","google.com",":

**Explanation:**  
BrowserHistory browserHistory = new BrowserHistory("leetcode.com");  
browserHistory.visit("google.com"); // You are in "leetcode.com". Visit "google.com"  
browserHistory.visit("facebook.com"); // You are in "google.com". Visit "facebook.com"  
browserHistory.visit("youtube.com"); // You are in "facebook.com". Visit "youtube.com"  
browserHistory.back(1); // You are in "youtube.com", move back to "facebook.com" return "facebook.com"  
browserHistory.back(1); // You are in "facebook.com", move back to "google.com" return "google.com"  
browserHistory.forward(1); // You are in "google.com", move forward to "facebook.com" return "facebook.com"  
browserHistory.visit("linkedin.com"); // You are in "facebook.com". Visit "linkedin.com"  
browserHistory.forward(2); // You are in "linkedin.com", you cannot move forward any steps.  
browserHistory.back(2); // You are in "linkedin.com", move back two steps to "facebook.com" then to "google.com". return "google.com"  
browserHistory.back(7); // You are in "google.com", you can move back only one step to "leetcode.com". return "leetcode.com"

### Constraints:

- `1 <= homepage.length <= 20`
- `1 <= url.length <= 20`
- `1 <= steps <= 100`
- `homepage` and `url` consist of `'.'` or lower case English letters.
- At most 5000 calls will be made to `visit`, `back`, and `forward`.

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```

1  class BrowserHistory {
2  public:
3      BrowserHistory(string homepage) {
4
5      }
6
7      void visit(string url) {
8
9      }
10
11     string back(int steps) {
12
13     }
14
15     string forward(int steps) {
16
17     }
18 };
19
20 /**
21  * Your BrowserHistory object will be instantiated and called as such:
22  * BrowserHistory* obj = new BrowserHistory(homepage);
23  * obj->visit(url);
24  * string param_2 = obj->back(steps);
25  * string param_3 = obj->forward(steps);
26  */

```

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