```
#include <stdio.h>
#include <string.h>
int main(){
    char roman[20];
    gets(roman);
    int len = strlen(roman);
    // The variable peak maintains the value of the
    // highest value symbol seen so far. This helps
    // find out if we should apply addition rule or
    // subtraction rule.
    int value = 0, peak = 0, curr;
    for(int i = len-1; i >= 0; i--){
        switch (roman[i]) {
            case 'M':
                curr = 1000; break;
            case 'D':
                curr = 500; break;
            case 'C':
                curr = 100; break;
            case 'L':
                curr = 50; break;
            case 'X':
                curr = 10; break;
            case 'V':
                curr = 5; break;
            case 'I':
                curr = 1; break;
        if (curr >= peak) // Addition rule
            value += curr;
        else // Subtraction rule
            value -= curr;
        peak = (peak >= curr) ? peak : curr; // Peak may have changed
    printf("%d", value);
}
```