Ques   Roman to integer

I	1
V	5
X	10
L	50
C	100
D	500
M	1000

IV

2990
MM

999   IM
990   XM
115   → CXV

(MM X M)

MMXM
↑
containskey (key)
get (key)
put (key, val)

ans → ~~1000~~
        1990 + 1000
        ⟹ 2990

Key	Value
1	10
5	10
9	9

$n =$

$n = n - 2(n \% 10)$

$\text{or} \Rightarrow$

$$\begin{array}{r} 49 \\ 4 \\ \hline \end{array}$$

$$8 \quad \begin{array}{|c} \hline 19 \ 6 \\ \hline \end{array}$$

$$7 \ \begin{array}{|c|c} \hline 8955\ 795758 & 12793 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \hline 19 \\ 14 \\ \hline 55 \\ 49 \\ \hline 65 \\ 63 \\ \hline 27 \\ 21 \\ \hline 6 \end{array}$$

0

$$\overset{0\ \ \ 1\ \ \ 2\ \ \ 3}{"1\ 0\ 7\ 9"}$$

s.charAt(2) $\Rightarrow$ '7'

'0'   '   7
48   49   55

'7' - '0' $\Rightarrow$ 7

Ques — AB string ⟹ A^*B

↳ AB   AAB   AAAB   AAAAB ..... ,

n A's and 1 B

$1 \leq n \leq 10^5$

~~B   BA   BAA~~

$t \Rightarrow$ $\underbrace{A \, AB}$ $\underbrace{A \, A \, \underline{B}}$

AAB   AAB

AAA BBB

$\dfrac{A|B}{AB}$ ⟹   A|A| B|B

A A A B B B

AAAB   AB

" "
A|A B

A ABAB

|
B

" "
⟹ "A AA|B"

A A A A A B AAB B

✗ Can not start from B

✗ Con not end at A

✗ no of B's are greater than no of A's for every position

A B

$$\left\lfloor \frac{A\ B\ B \qquad\qquad}{\wedge} \right\rfloor$$