**import** java.util.Scanner;

**public** **class** Distance {

**public** Distance() {

// **TODO** Auto-generated constructor stub

}

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String s;

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter input string with , separator ");

s = sc.nextLine();

//s = "F1,L1,B2,R1,B3";

**if** (s.matches("^[FLBR,0-9]+$"))

{

//System.out.println("Input in correct form");

**int** forward = 0;

**int** backward =0;

String[] s1 = s.split(",");

// System.out.println("You entered String "+s);

**for** (**int** i = 0; i < s1.length; i++)

{

//System.out.println(s1[i]); System.out.println(s1[i].length());

**if** (s1[i].contains("F"))

{

String p = s1[i].replaceAll("\\D+","");

**int** num = Integer.*parseInt*(p);

forward = forward + num;

}

**else** **if** (s1[i].contains("B"))

{

String p = s1[i].replaceAll("\\D+","");

**int** num = Integer.*parseInt*(p);

backward = backward + num;

}

}

//System.out.println("forward = "+forward);

//System.out.println("backward = "+backward);

**int** distance = forward - backward;

System.***out***.println("Distance from the home = "+Math.*abs*(distance));

}

**else**

{

System.***out***.println("invalid input");

}

}

}