NAME:	TRISECT INSTITUTE	J2C1
		STRING:
DATE:	Job Oriented Java	COMMON
		DROBLEMS 2

Shifting Characters in String

For shifting or rearranging characters in a string, we have to make a new string (initially empty) and add characters according to desired pattern.

Example 1: Shift all non-alphabets in string to the end

```
1 String str = "c#a5t";
2 int len = str.length();
3 String strAlpha = "";
                                              //to hold alphabets
4 String strOther = "";
                                              //to hold non-alphabets
  for(int i = 0; i < len; i++)
6
7
      char ch = str.charAt(i);
8
      if(ch >= 'a' && ch <= 'z')
9
             strAlpha = strAlpha + ch;
10
      }
11
12
      else
13
14
             strOther = strOther + ch;
15
      }
16 }
17 strAlpha = strAlpha + strOther;
                                            //joining two strings together
18 System.out.println(strAlpha);
```

Output:

cat#5

Dry Run:

Before loop	str = "c#a5t" len = 5 strAlpha = "" strOther = ""					
loop variable	ch	if	else Print			
i = 0	'c'	⇒ true ⇒ strAlpha = "" + 'c' ⇒ strAlpha = "c"				
i = 1	'#'	⇒ false	⇒ strOther = "" + '#' -⇒ strOther = "#"			
i = 2	'a'	⇒ true ⇒ strAlpha = "c" + 'a' ⇒ strAlpha = "ca"	-			
i = 3	'5'	⇒ false	⇒ strOther = "#" + '5' - ⇒ strOther = "#5"			

i = 4	't'		-	-
		⇒ strAlpha = "ca" + 't'		
		⇒ strAlpha = "cat"		
i = 5	-	-	-	-
Outside loop	⇒ strAlpha = "cat" + "#5"			cat#5
	\Rightarrow	strAlpha = "cat#5"		

```
Problem 1
            Give output of following code.
1 String name = "1D0I#L0L#I";
2 char hash = '#';
3 String strA = "";
4 String strN = "";
5 String strH = "";
6 int len = name.length();
8 for(int i = 0; i < len; i++)</pre>
9 {
10
      char zch = str.charAt(i);
11
      if(zch == hash)
12
13
             strH = strH + zch;
14
      if(zch >= 'A' && zch <= 'Z')
15
16
17
             strA = strA + zch;
18
19
      if(zch >= '0' && zch <= '9')
20
21
            strN = strN + zch;
22
      }
23 }
24
25 strA = strA + strH + strN;
26 System.out.println(strA);
```

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