

```

1  ✓ import java.io.*;
2  import java.util.*;
3  import java.text.SimpleDateFormat;
4  import java.util.Date;
5
6  ✓ class batch{
7
8  ✓ public boolean lengthCheck(String str){
9      //RETURN true if length...is valid or RETURN...
10     ✓ if(str.length()==12){
11         return true;
12     }
13     return false;
14 }
15
16 ✓ public boolean batchNumberCheck(String str){
17     //RETURN true if batch number is valid or false if in valid....
18     char c=str.charAt(2);
19     if(Character.isDigit(c)& Character.isUpperCase(str.charAt(0))& Character.isUpperCase(str.
    ✓ charAt(1))& Character.isUpperCase(str.charAt(3))){
20         return true;
21     }
22     return false;
23 }
24
25
26 ✓ public boolean yearCheck(String str){
27     //Check if year is valid RETURN true else RETURN false...
28     String s= str.substring(4, 8);
29     ✓ if (Integer.parseInt(s)>=2015 & Integer.parseInt(s)<=2020){
30         return true;
31     }
32     return false;
33 }
34
35 ✓ public boolean monthCheck(String str){
36     //Check if month is valid RETURN true else RETURN false...

```

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Test Results

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```
35 ✓ public boolean monthCheck(String str){
36     //Check if month is valid RETURN true else RETURN false...
37     String m = str.substring(8, 10);
38     if (Integer.parseInt(m) >= 1 & Integer.parseInt(m) <= 12){
39         return true;
40     }
41     return false;
42 }
43
44 ✓ public boolean dayCheck(String str){
45     //Check if day is valid RETURN true or else RETURN false...
46     String d = str.substring(10, 12);
47     if (Integer.parseInt(d) >= 1 & Integer.parseInt(d) <= 31){
48         return true;
49     }
50     return false;
51 }
52
53 ✓ public String printBatchNumber(String str){
54     //RETURN batch number...
55     //If batchNumber or date is not valid RETURN null
56     if(batchNumberCheck(str)){
57         return str.substring(0, 4);
58     }
59     return null;
60 }
61
62 ✓ public String printDate(String str){
63     //RETURN Valid date in DD/MM/YYYY format of string type...
64     //If date or batchNumber is not valid RETURN null
65     if (yearCheck(str) & monthCheck(str) & dayCheck(str)){
66
67         return str.substring(4, 8) + "/" + str.substring(8, 10) + "/" + str.substring(10, 12);
68     }
69     return null;
70 }
71 }
```

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Test Results

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```

public boolean dayCheck(String str){
    //Check if day is valid RETURN true or else RETURN false...
    String d = str.substring(10, 12);
    if (Integer.parseInt(d) >= 1 & Integer.parseInt(d) <= 31){
        return true;
    }
    return false;
}

public String printBatchNumber(String str){
    //RETURN batch number...
    //If batchNumber or date is not valid RETURN null
    if(batchNumberCheck(str)){
        return str.substring(0, 4);
    }
    return null;
}

public String printDate(String str){
    //RETURN Valid date in DD/MM/YYYY format of string type...
    //If date or batchNumber is not valid RETURN null
    if (yearCheck(str) & monthCheck(str) & dayCheck(str)){
        return str.substring(4, 8) + "/" + str.substring(8, 10) + "/" + str.substring(10, 12);
    }
    return null;
}

}

class Source{
    public static void main(String[] args) {
        //Don't touch this or else your program might not run...
    }
}

```

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Results

Custom Input

RUN CODE