

Part A1:

```
//Part A1:
System.out.println("Match 1: " + Pattern.matches(regex: "[789][0-9]{9}", input: "99530389490"));
System.out.println("Match 2: " + Pattern.matches(regex: "[789][0-9]", input: "895"));
System.out.println("Match 3: " + Pattern.matches(regex: "[a-d][m-p]", input: "p"));
System.out.println("Match 4: " + Pattern.matches(regex: "[a-d][m-p]", input: "p"));
System.out.println("Match 5: " + Pattern.matches(regex: "[a-d][m-p]", input: "co"));
System.out.println("Match 6: " + Pattern.matches(regex: ".s", input: "effg"));
System.out.println("Match 7: " + Pattern.matches(regex: "...m", input: "ertm"));
System.out.println("Match 8: " + Pattern.matches(regex: "^abc]", input: "o"));
System.out.println("Match 9: " + Pattern.matches(regex: "[\\d]", input: "98"));
```

```
Match 1: false
Match 2: false
Match 3: true
Match 4: false
Match 5: true
Match 6: false
Match 7: true
Match 8: true
Match 9: false
```

Part A2:

```
//Part A2:
System.out.println("Match 10: " + Pattern.matches(regex: "[\\d]", input: "9"));
System.out.println("Match 11: " + Pattern.matches(regex: "[\\D]", input: "a"));
System.out.println("Match 12: " + Pattern.matches(regex: "b*a", input: "a"));
System.out.println("Match 13: " + Pattern.matches(regex: "colo?r", input: "color"));
System.out.println("Match 14: " + Pattern.matches(regex: "[789][0-9]{4}", input: "99530"));
System.out.println("Match 15: " + Pattern.matches(regex: "[789]{2}[0-5]{3}", input: "89530"));

Pattern p = Pattern.compile(regex: "\\d");
Matcher m = p.matcher(input: "332");
System.out.println("Find 1: " + m.find());

p = Pattern.compile(regex: "^abc");
m = p.matcher(input: "123The ");
System.out.println("Find 2: " + m.find());

p = Pattern.compile(regex: "[\\w]");
m = p.matcher(input: "The color green ");
System.out.println("Find 3: " + m.find());
```

```
Match 10: true  
Match 11: true  
Match 12: true  
Match 13: true  
Match 14: true  
Match 15: true  
Find 1: true  
Find 2: true  
Find 3: true
```