10. Regular Expression Matching

```
Implement regular expression matching with support for '.' and
'}'.
".' Matches any single character. "", Matches zero or more of the
preceding element.
The matching should cover the entire input string (not partial).
The function prototype should be: bool isMatch(const char \emph{s, const
char \p)
Some examples: isMatch(''aa'', ''a'') → false\\
isMatch (''aa'', ''aa'') \rightarrow true \\
isMatch (''aa'', ''aa'') \rightarrow false \\
isMatch (''aa'', ''a\emph{'') \rightarrow true \\
isMatch (''aa'', ''a\emph{'') \rightarrow true \\
isMatch (''ab'', ''.\emph{'') \rightarrow true \\
isMatch (''ab'', ''.\emph{') \rightarrow true \\
public boolean isMatch(String s, String p) {
     if (p.isEmpty()) {
          return s.isEmpty();
     } else if (p.length() == 1) {
          return s.length() == 1 && isEqual(s, p);
     } else if (p.charAt(1) != '*') {
      return s.length() > 0 && isEqual(s, p) && isMatch(s.substring(1), p.substring(1));
     } else {
          if (s.length() > 0 \&\& isEqual(s, p)) {
          return isMatch(s, p.substring(2)) || isMatch(s.substring(1), p);
              return isMatch(s, p.substring(2));
     }
}
private boolean isEqual(String s, String p) {
     return s.charAt(0) == p.charAt(0) || p.charAt(0) == '.';
}
```