**package** BankMid;

**public class** StringMatching1 {

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

String text =**"1532376"**;

String pattern =**"78"**;

**int** patternLength = pattern.length();

**int** index =0;

*stringMatching*(text,pattern,patternLength,index);

}

**public static void** stringMatching(String text, String pattern, **int** length, **int** index)

{

String match =**""**;

String string;

**int** k =0;

**int** prime = 13;

String afterNotMatchSubString =**""**;

**int** l =1;

**int** count =0;

**int** startingEndIndex = 0;

**if** (text.length()<pattern.length())

{

System.***out***.println(**"Not Match: "**+pattern);

}**else** {

**while** (length > 0) {

match = match + text.charAt(k);

k = k + 1;

length = length - 1;

}

string = match;

**int** convert = Integer.*parseInt*(string);

**int** hash = (convert % prime);

**int** convertPattern = Integer.*parseInt*(pattern);

**int** hashPattern = (convertPattern % prime);

**if** (hash == hashPattern) {

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

**if** (match.charAt(i) == pattern.charAt(i)) {

count = count + 1;

startingEndIndex = index;

} **else** {

**break**;

}

}

} **else** {

**char**[] ch = text.toCharArray();

**for** (**int** j = l; j < ch.**length**; j++) {

afterNotMatchSubString = afterNotMatchSubString + ch[j];

}

length = pattern.length();

System.***out***.println(**"Substring are after delete first char: "** + afterNotMatchSubString);

}

**if** (count == pattern.length()) {

System.***out***.println(**"Match the substring: "** + pattern + **" ,at the index number: "** + startingEndIndex);

} **else** {

*stringMatching*(afterNotMatchSubString, pattern, length, index + 1);

}

}

}

}