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/*  
 * BostonPrep  
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 * 12th Grade  
 */
```

```
import java.io.*;  
import java.util.*;
```

```
public class Main
```

```
{  
    public static void main (String [] args)  
    {  
        File in = new File ("test_data.txt");  
        BufferedReader br = null;  
  
        try  
        {  
            br = new BufferedReader (new FileReader (in));  
            String line;  
  
            while ((line = br.readLine()) != null)  
            {  
                String [] larr = line.split(" ");  
                String stringN = larr[0];  
                String stringP = larr[1];  
  
                int idx = stringN.length()- (Integer.parseInt(stringP));  
  
                String [] sarr = stringN.split("");  
                int num = Integer.parseInt(sarr[idx]);  
  
                for (int i = 0; i<idx; i++)  
                {  
                    int cur = Integer.parseInt(sarr[i]);  
                    int plus = num + cur;  
                    if (plus >= 10)  
                    {  
                        plus = plus%10;  
                    }  
                    System.out.print(plus);  
                }  
                System.out.print(num);  
                for (int j = idx+1; j<sarr.length; j++)  
                {  
                    int cur = Integer.parseInt(sarr[j]);  
                    int minus = num - cur;  
                    minus = Math.abs(minus);  
                    System.out.print(minus);  
                }  
                System.out.println();  
            }  
        }  
        catch (IOException e)  
        {  
            e.printStackTrace();  
        }  
    }  
}
```