

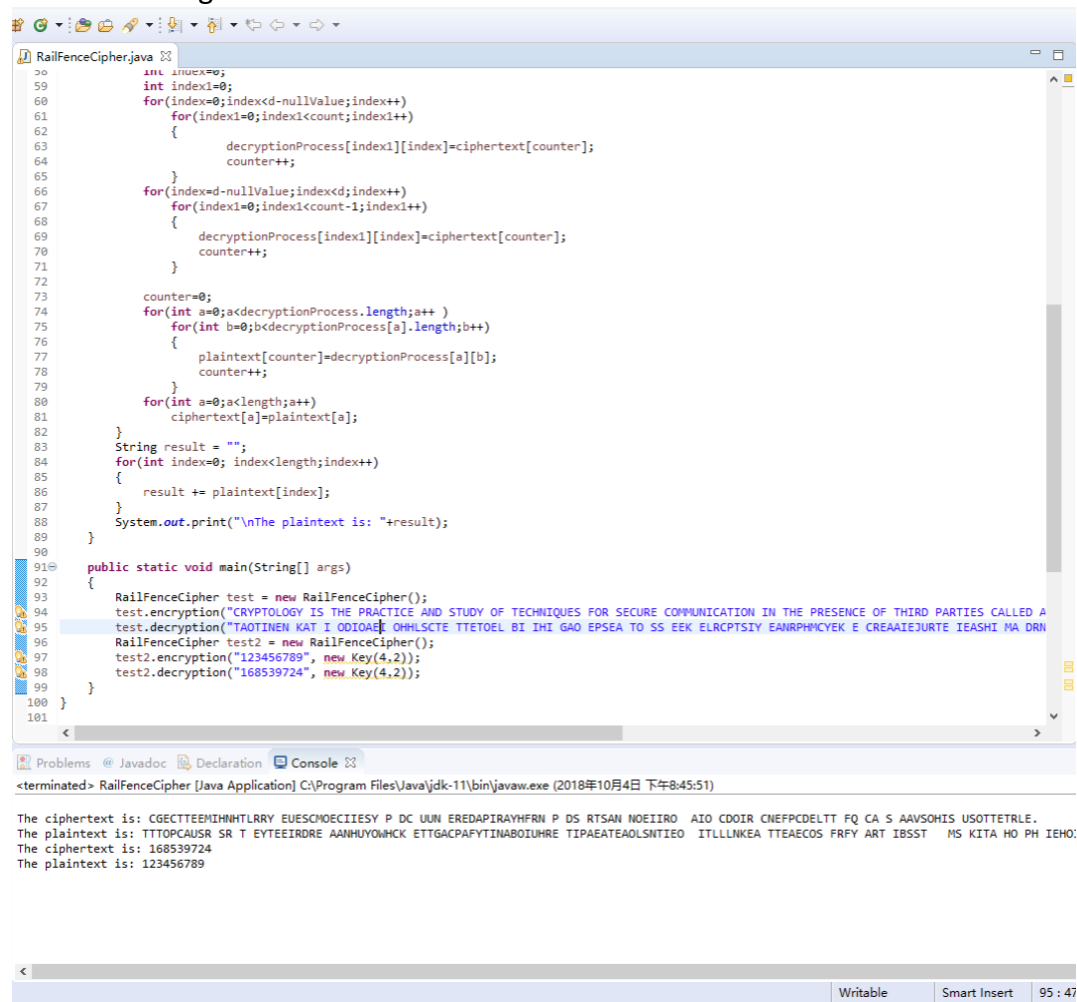
Test 1 (Encryption)

Using a key of (4,5) use your code to encrypt the following text: "CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESENCE OF THIRD PARTIES CALLED ADVERSARIES."

Test 2 (Decryption)

Using a key of (3,3) use your code to decrypt the following text: "TAOTINEN KAT I ODIOAEI OHHLSCTE TTETOEL BI IHI GAO EPSEA TO SS EEK ELRCPTSIY EANRPHMCKYK E CREAIEJURTE IEASHI MA DRN RH AUWTA RF EFTFHENTPSF Q TAILB E TTECAPMSIYIY SRPURNTBL YCL OANAO E TVREAOSHOTTNULSRHK"

Result for using method1



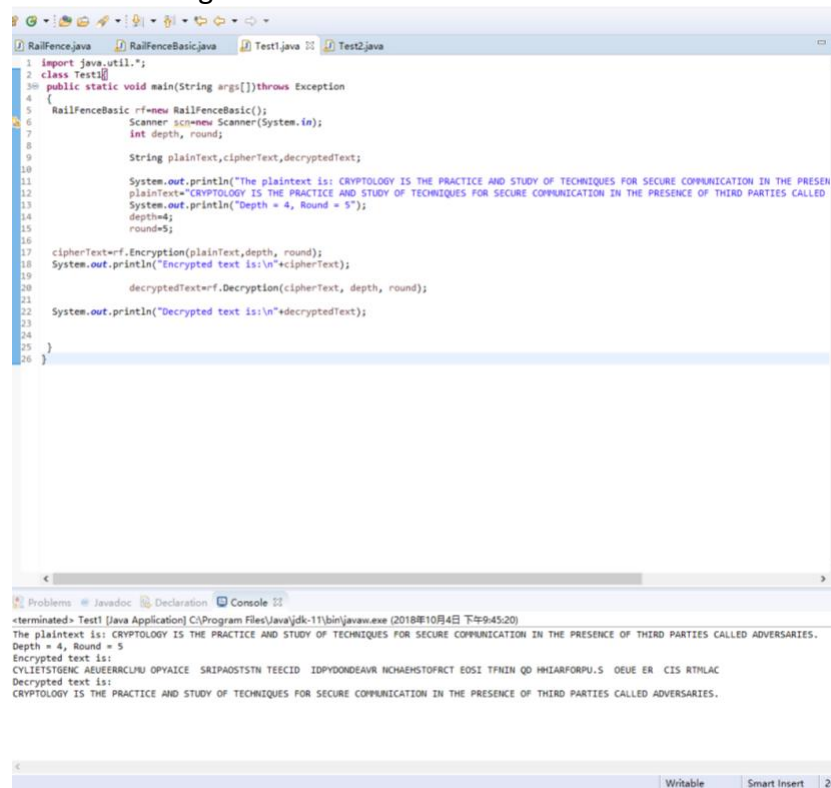
```
1  RailFenceCipher.java
2  50      int index=0;
3  51      int index1=0;
4  52      for(index=0;index<d-nullValue;index++)
5  53          for(index1=0;index1<count;index1++)
6  54          {
7  55              decryptionProcess[index1][index]=ciphertext[counter];
8  56              counter++;
9  57          }
10 58      for(index=d-nullValue;index<d;index++)
11 59          for(index1=0;index1<count-1;index1++)
12 60          {
13 61              decryptionProcess[index1][index]=ciphertext[counter];
14 62              counter++;
15 63          }
16 64      counter=0;
17 65      for(int a=0;a<decryptionProcess.length;a++)
18 66          for(int b=0;b<decryptionProcess[a].length;b++)
19 67          {
20 68              plaintext[counter]=decryptionProcess[a][b];
21 69              counter++;
22 70          }
23 71      for(int a=0;a<length;a++)
24 72          ciphertext[a]=plaintext[a];
25 73      String result = "";
26 74      for(int index=0; index<length;index++)
27 75      {
28 76          result += plaintext[index];
29 77      }
30 78      System.out.print("\nThe plaintext is: "+result);
31 79  }
32 80  }
33 81  public static void main(String[] args)
34 82  {
35 83      RailFenceCipher test = new RailFenceCipher();
36 84      test.encrypted("CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESENCE OF THIRD PARTIES CALLED A
37 85      test.decrypted("TAOTINEN KAT I ODIOAEI OHHLSCTE TTETOEL BI IHI GAO EPSEA TO SS EEK ELRCPTSIY EANRPHMCKYK E CREAIEJURTE IEASHI MA DRN
38 86      RailFenceCipher test2 = new RailFenceCipher();
39 87      test2.encrypted("123456789", new Key(4,2));
40 88      test2.decrypted("168539724", new Key(4,2));
41 89  }
42 90  }
43 91  }
44 92  }
45 93  }
46 94  }
47 95  }
48 96  }
49 97  }
50 98  }
51 99  }
52 100 }
53 101 }
```

```
<terminated> RailFenceCipher [Java Application] C:\Program Files\Java\jdk-11\bin\javaw.exe (2018年10月4日 下午8:45:51)

The ciphertext is: CGECTTEEMIMHMLTARY EUESCMECIESY P DC UUN EREDAPIRAVHFRN P DS RTSAN NOEIRO AIO CDOIR CHEFPCDELTT FQ CA S AAVSOHS USOTTETRL.
The plaintext is: TTOTPCAUSS SR T EYTEIIRDRE AANNHUYONHCK ETTGACPAFYITINABOIHURE TIPAEATEALSNTIEO ITLLNKEA TTEACOS FRFY ART IBSST MS KITA HO PH IEHO:
The ciphertext is: 168539724
The plaintext is: 123456789
```

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Result for using method2



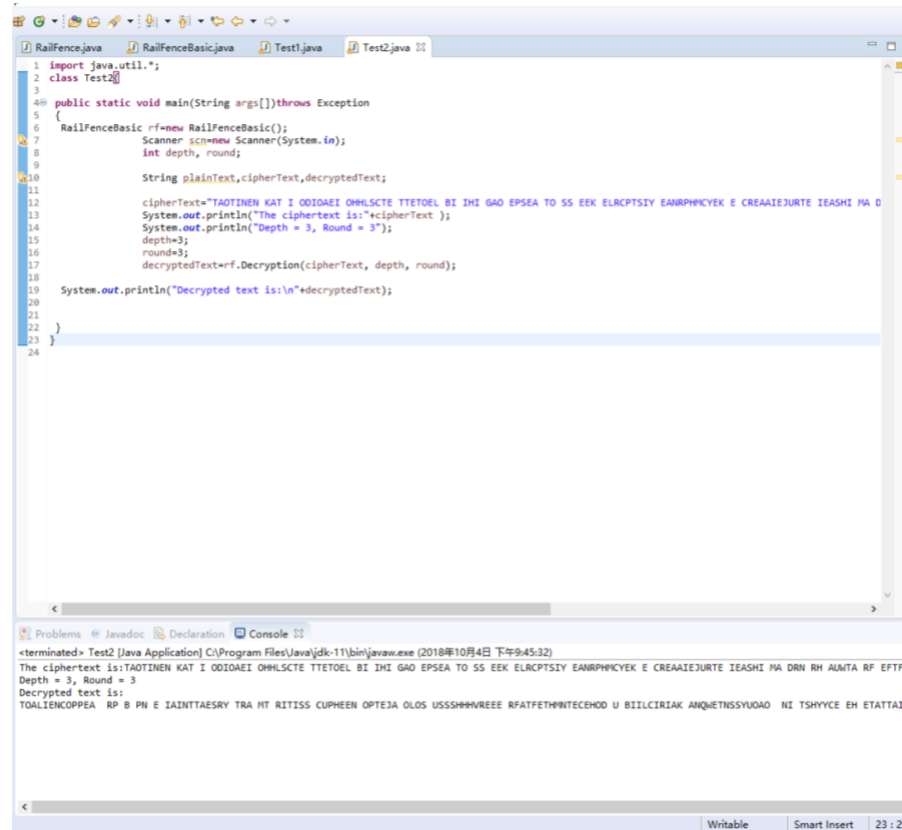
```
1 import java.util.*;
2 class Test1 {
3     public static void main(String args[]) throws Exception
4     {
5         RailFenceBasic rf=new RailFenceBasic();
6         Scanner scn=new Scanner(System.in);
7         int depth, round;
8
9         String plainText,cipherText,decryptedText;
10
11         System.out.println("The plaintext is: CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESEN
12         plainText="CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESENCE OF THIRD PARTIES CALLED
13         System.out.println("Depth = 4, Round = 5");
14         depth=4;
15         round=5;
16
17         cipherText=rf.Encryption(plainText,depth, round);
18         System.out.println("Encrypted text is:\n"+cipherText);
19
20         decryptedText=rf.Decryption(cipherText, depth, round);
21
22         System.out.println("Decrypted text is:\n"+decryptedText);
23
24     }
25 }
26 }
```

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<terminated> Test1 [Java Application] C:\Program Files\Java\jdk-11\bin\javaw.exe (2018年10月4日 下午9:45:20)

The plaintext is: CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESENCE OF THIRD PARTIES CALLED ADVERSARIES.
Depth = 4, Round = 5
Encrypted text is:
CYLIETSTGNC ABUEERRCLUNU OPAIACE SRIPAOSTSTN TEECID IDPYDONDIAVR NCHAEHSTOFRACT EOSI TFNIN QD HHIAZFOPRU.S OEU ER CIS RTHLAC
Decrypted text is:
CRYPTOLOGY IS THE PRACTICE AND STUDY OF TECHNIQUES FOR SECURE COMMUNICATION IN THE PRESENCE OF THIRD PARTIES CALLED ADVERSARIES.

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```
1 import java.util.*;
2 class Test2 {
3
4     public static void main(String args[]) throws Exception
5     {
6         RailFenceBasic rf=new RailFenceBasic();
7         Scanner scn=new Scanner(System.in);
8         int depth, round;
9
10        String plainText,cipherText,decryptedText;
11
12        cipherText="TAOTINEN KAT I OOIIOAEI OHMLSCTE TTETOEL BI IHI GAO EPSEA TO SS EEK ELRCPTSIY EAMRPHMYCEK E CREAIEJURTE IEASHI MA D
13        System.out.println("The ciphertext is:"cipherText );
14        System.out.println("Depth = 3, Round = 3");
15        depth=3;
16        round=3;
17        decryptedText=rf.Decryption(cipherText, depth, round);
18
19        System.out.println("Decrypted text is:\n"+decryptedText);
20
21    }
22 }
23 }
24 }
```

Problems Javadoc Declaration Console

<terminated> Test2 [Java Application] C:\Program Files\Java\jdk-11\bin\javaw.exe (2018年10月4日 下午9:45:32)

The ciphertext is:TAOTINEN KAT I OOIIOAEI OHMLSCTE TTETOEL BI IHI GAO EPSEA TO SS EEK ELRCPTSIY EAMRPHMYCEK E CREAIEJURTE IEASHI MA DRN RH AUMTA RF EFTF
Depth = 3, Round = 3
Decrypted text is:
TOALIENCOPPEA RP B PH E IAINTAESRY TRA HT RITISS CUPHEEN OPTJEA OLOS USSSHMMVREEE RFATFETHWITECEHOD U BIILCIRIAK ANQUETNSSYUOAD NI TSHYVCE EH ETTATTI

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