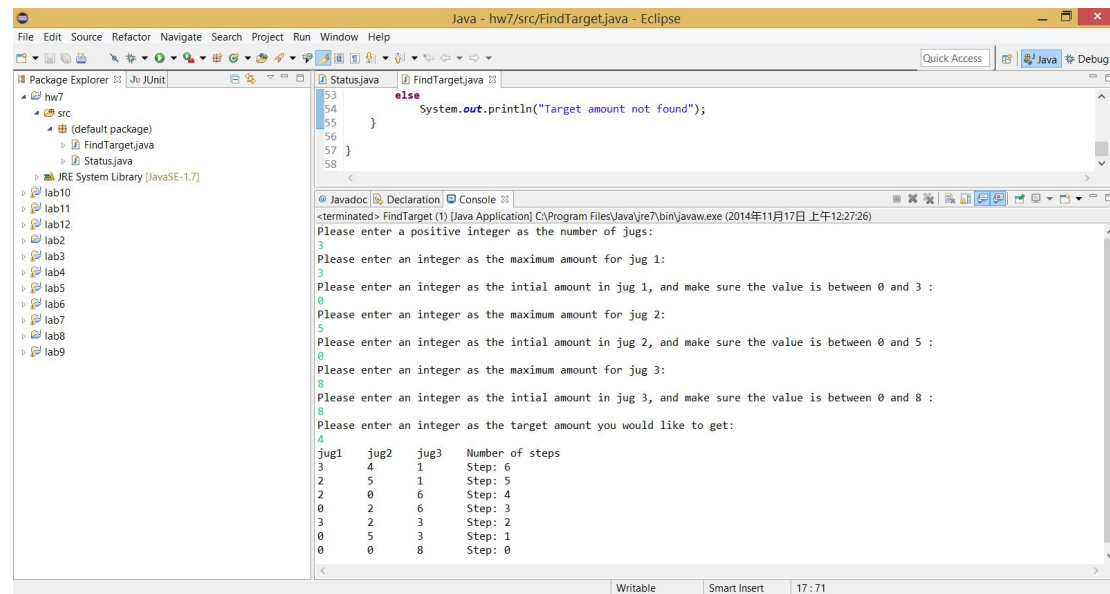


Screenshot of successful search:

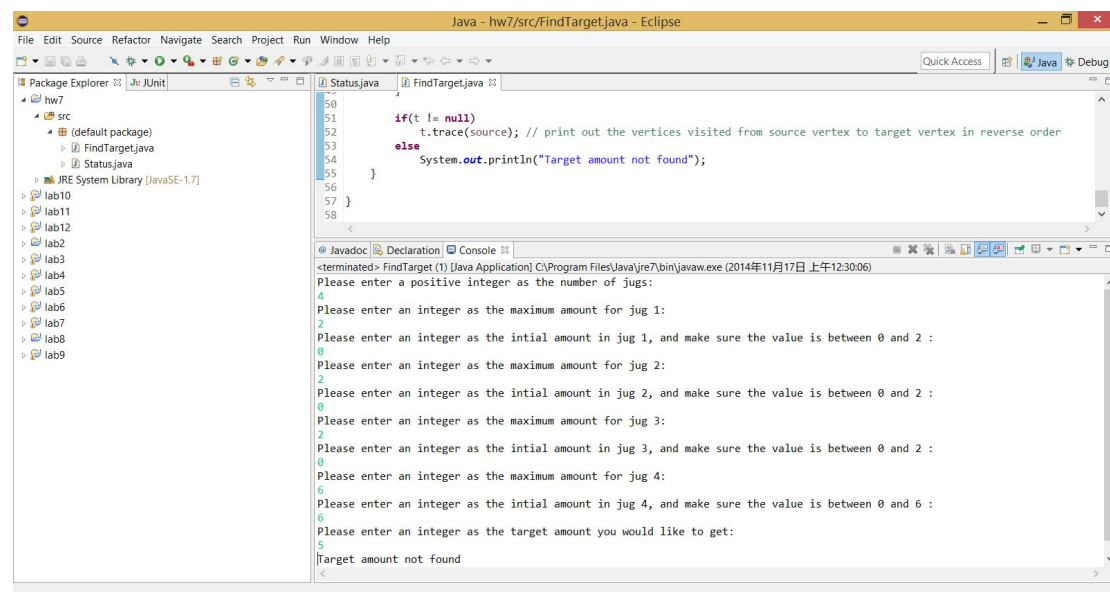
Input 3 jugs with capacities (3, 5, 8), initial status (0, 0, 8) and target amount 4



```
Java - hw7/src/FindTarget.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit
hw7
src
(default package)
FindTarget.java
Status.java
JRE System Library [JavaSE-1.7]
lab10
lab11
lab12
lab2
lab3
lab4
lab5
lab6
lab7
lab8
lab9
FindTarget.java
53 else
54 System.out.println("Target amount not found");
55 }
56 }
57 }
58 }
Javadoc Declaration Console
<terminated> FindTarget (1) [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (2014年11月17日 上午12:27:26)
Please enter a positive integer as the number of jugs:
3
Please enter an integer as the maximum amount for jug 1:
3
Please enter an integer as the initial amount in jug 1, and make sure the value is between 0 and 3 :
0
Please enter an integer as the maximum amount for jug 2:
5
Please enter an integer as the initial amount in jug 2, and make sure the value is between 0 and 5 :
0
Please enter an integer as the maximum amount for jug 3:
8
Please enter an integer as the initial amount in jug 3, and make sure the value is between 0 and 8 :
8
Please enter an integer as the target amount you would like to get:
4
jug1 jug2 jug3 Number of steps
3 4 1 Step: 6
2 5 1 Step: 5
2 0 6 Step: 4
0 2 6 Step: 3
3 2 3 Step: 2
0 5 3 Step: 1
0 0 8 Step: 0
Writeable Smart Insert 17:71
```

Screenshot of unsuccessful search:

Input 4 jugs with capacities (2, 2, 2, 6), initial status (0, 0, 0, 6) and target amount 5



```
Java - hw7/src/FindTarget.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit
hw7
src
(default package)
FindTarget.java
Status.java
JRE System Library [JavaSE-1.7]
lab10
lab11
lab12
lab2
lab3
lab4
lab5
lab6
lab7
lab8
lab9
FindTarget.java
50
51 if(t != null)
52 t.trace(source); // print out the vertices visited from source vertex to target vertex in reverse order
53 else
54 System.out.println("Target amount not found");
55 }
56 }
57 }
58 }
Javadoc Declaration Console
<terminated> FindTarget (1) [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (2014年11月17日 上午12:30:06)
Please enter a positive integer as the number of jugs:
4
Please enter an integer as the maximum amount for jug 1:
2
Please enter an integer as the initial amount in jug 1, and make sure the value is between 0 and 2 :
0
Please enter an integer as the maximum amount for jug 2:
2
Please enter an integer as the initial amount in jug 2, and make sure the value is between 0 and 2 :
0
Please enter an integer as the maximum amount for jug 3:
2
Please enter an integer as the initial amount in jug 3, and make sure the value is between 0 and 2 :
0
Please enter an integer as the maximum amount for jug 4:
6
Please enter an integer as the initial amount in jug 4, and make sure the value is between 0 and 6 :
6
Please enter an integer as the target amount you would like to get:
5
Target amount not found
```