CISC 327 Assignment 5 Report Create Service

The Spice Girls (Group 13)

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Create Service

Code Sections:

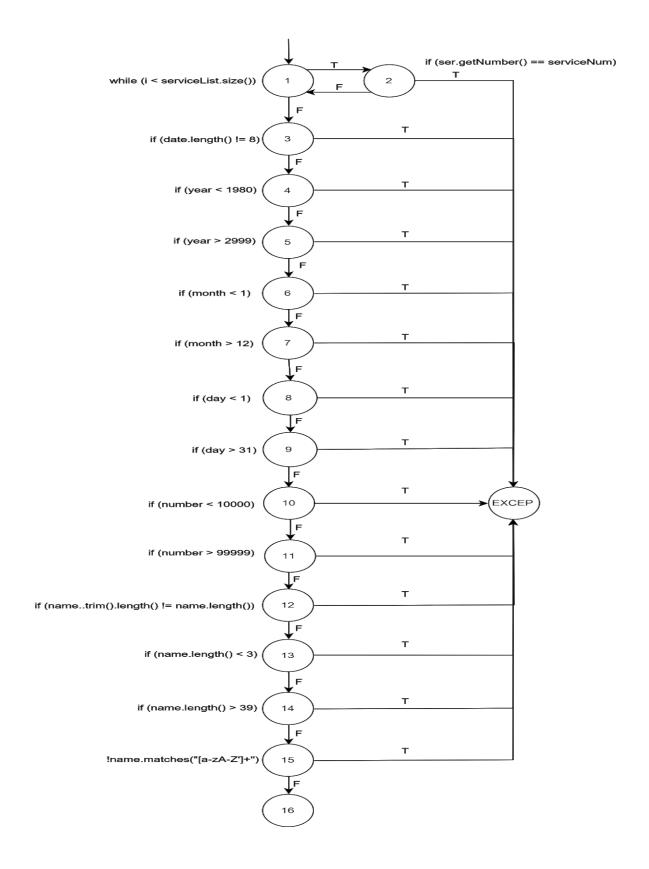
```
// SERVICES.java
// Lines 159 - 198
try {
// Create date object
Date serviceDate = new Date(splitLine[5]); // Goes to DATE.java
// Ensure service does not exist
int serviceNumber = Integer.parseInt(splitLine[1]); // Goes to FINDSERVICE method
if (findService(serviceNumber) != null) {
        throw new InvalidInputFileException("Error: Invalid Central Service File.");
 }
 // Create service object
serv = new Service(serviceNumber, 30, 0, splitLine[4], serviceDate); // Goes to SERVICE.java
catch (NumberFormatException e) {
br.close();
System.out.println(e.getMessage());
throw new InvalidInputFileException("Error: Invalid Central Service File.");
addService(serv);
// Lines 341 - 350
// Find service
public static Service findService(int serviceNum) {
int i = 0;
while (i < serviceList.size()) {</pre>
        if (serviceList.get(i).getNumber() == serviceNum) {
        return serviceList.get(i);
        }
        i++;
}
return null;
// DATE.java
//
// From date constructor
if (date.length() != 8) {
throw new InvalidDateFormatException("Error: Invalid date format.");
// Year
if (year < 1980) {
throw new InputOutOfRangeException("Error: Year must be above 1979.");
```

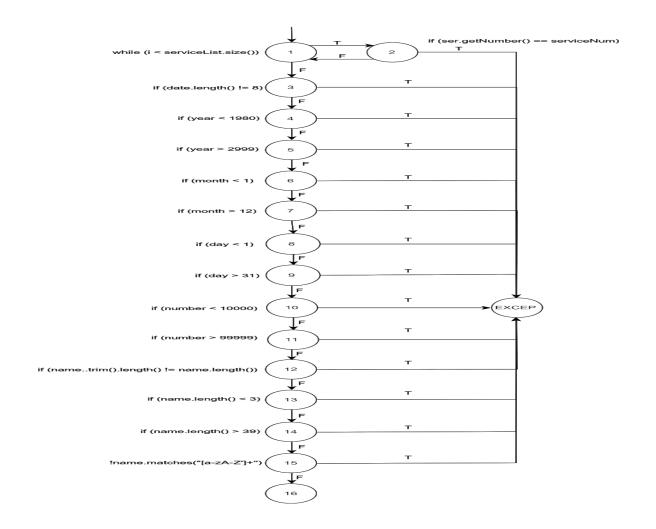
```
}
if (year > 2999) {
throw new InputOutOfRangeException("Error: Year must be below 2999.");
this.year = year;
// Month
if (month < 1 || month > 12) {
throw new InputOutOfRangeException("Error: Month out of range.");
this.month = month;
// Day
if (day < 1 \mid | day > 31) {
throw new InputOutOfRangeException("Error: Day out of range.");
this.day = day;
//
// SERVICE.java
// Lines 96 - 188
// Validate service number
if (number < 10000) {
throw new InputOutOfRangeException("Error: Service number must be above 9999.");
if (number > 99999) {
throw new InputOutOfRangeException("Error: Service number must be below 100000.");
this.number = number;
// Validate name
// Cannot start or end with spaces
if (name.trim().length() != name.length()) {
throw new InvalidServiceNameException("Service name cannot start or end with whitespace.");
// Cannot be less than 3 characters
if (name.length() < 3) {</pre>
throw new InvalidServiceNameException("Service name must be at least 3 characters.");
}
// Cannot be greater than 39 characters
if (name.length() > 39) {
throw new InvalidServiceNameException("Service name can not be greater than 39 characters.");
}
// Cannot contain anything but letters and '
if (!name.matches("[a-zA-Z0-9 ']+")) {
throw new InvalidServiceNameException("Service name can not contain characters other than alpha and
'.");
}
```

this.name = name;

Method: Path Testing

Analysis of Test Cases:





Test Inputs:

Те	Input (tsf.txt without EOS)	Path	
st			

1	CRE 10000 0 00000 TEST 19991010 CRE 10001 0 00000 TEST 19991010 CRE 10001 0 00000 TEST 19991010	1,2,1,2,EXCEP
2	CRE 10000 0 00000 TEST 1999101	1,3,EXCEP
3	CRE 10000 0 00000 TEST 19791010	1,3,4,EXCEP
4	CRE 10000 0 00000 TEST 30001010	1,3,4,5,EXCEP
5	CRE 10000 0 00000 TEST 19990010	1,3,4,5,6,EXCEP
6	CRE 10000 0 00000 TEST 19991310	1,3,4,5,6,7,EXCEP
7	CRE 10000 0 00000 TEST 19991000	1,3,4,5,6,7,8,EXCEP
8	CRE 10000 0 00000 TEST 19991032	1,3,4,5,6,7,8,9,EXCEP
9	CRE 9999 0 00000 TEST 19991010	1,3,4,5,6,7,8,9,10,EXCEP
10	CRE 100000 0 00000 TEST 19991010	1,3,4,5,6,7,8,9,10,11,EXCEP
11	CRE 10000 0 00000 TEST 19991010	1,3,4,5,6,7,8,9,10,11,12,EXCEP
12	CRE 10000 0 00000 TE 19991010	1,3,4,5,6,7,8,9,10,11,12,13,EX CEP
13	CRE 10000 0 00000 TESTADDFESISISMCKDLFLSLSLSLS LSLSLSLS 19991010	1,3,4,5,6,7,8,9,10,11,12,13,14, EXCEP
14	CRE 10000 0 00000 TEST+ 19991010	1,3,4,5,6,7,8,9,10,11,12,13,14,1 5,EXCEP
15	CRE 10000 0 00000 TEST 19991010	1,3,4,5,6,7,8,9,10,11,12,13,14,1 5,16

Test Report:

Test	Result	Fix
1	SUCCESS	-

2	SUCCESS	-
3	SUCCESS	-
4	SUCCESS	-
5	SUCCESS	-
6	SUCCESS	-
7	SUCCESS	-
8	SUCCESS	-
9	SUCCESS	-
10	SUCCESS	-
11	SUCCESS	-
12	SUCCESS	-
13	SUCCESS	-
14	SUCCESS	-
15	FAILURE	Expected output date was incorrect. This was a test issue, replacing 19991212 with the proper 19991010 fixed the issue.