## A Survey of Fix Generation Usefulness

Thank you for participating in our survey. The purpose of this survey is to evaluate patches that are automatically generated by our tool, which is based on Neural Machine Translation (NMT).

Our tool learns past fixes from project history and generates fixing patches for real bug-inducing commits. Through this survey, we would like to know whether the generated patches are useful or not

The survey consists of 15 evaluations and should take 10-20 minutes to complete.

Your participation in this survey is voluntary. You have the right to not participate or to stop participating at any time without penalty.

Once again, thank you for your assistance!

\* Required

1. How would you best describe yourself? \* Mark only one oval. Undergraduate student Graduate student Developer Other: 2. How many years of development experience do you have? \* Mark only one oval. Less than 1 year 1-3 years 3-5 years More than 5 years 3. How do you estimate your programming experience? \* Mark only one oval. 1 3 5 Very experienced Very inexperienced 4. How experienced are you with Java? \* Mark only one oval. 1 2 3 5 Very inexperience Very experienced

```
config=cluster.getDesiredConfigByType("global");
Assert.assertNotNull(config);
Assert.assertNotSame(version,config.getVersionTag());
Assert.assertTrue(config.getProperties().containsKey("x"));
Assert.assertEquals("z",config.getProperties().get("x"));
Actual fix
config=cluster.getDesiredConfigByType("global");
Assert.assertNotNull(config);
Assert.assertSame(version,config.getVersionTag());
Assert.assertTrue(config.getProperties().containsKey("x"));
Assert.assertEquals("z",config.getProperties().get("x"));
Proposed fix
config=cluster.getDesiredConfigByType("global");
Assert.assertNotNull(config);
Assert.assertFalse(version,config.getVersionTag());
Assert.assertTrue(config.getProperties().containsKey("x"));
Assert.assertEquals("z",config.getProperties().get("x"));
 5. The proposed fix helps you to understand the required change *
   Mark only one oval.
                                               5
                                  3
   Strongly disagree
                                                     Strongly agree
 6. The proposed fix can be a reference if you were to create your own fix *
   Mark only one oval.
                      1
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   Strongly disagree
                                                     Strongly agree
 7. The proposed fix is harmful or confusing *
   Mark only one oval.
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   Strongly disagree
                                                     Strongly agree
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	The proposed fix does not make sense and I will just ignore it *  Mark only one oval.
	1 2 3 4 5
	Strongly disagree Strongly agree
9.	Any comments
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# **Proposed fix**

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4/15

```
MockEndpoint end=getMockEndpoint("mock:end");
end.expectedMessageCount(1);
MockEndpoint complete=getMockEndpoint("mock:complete");
complete.expectedBodiesReceived("finish", "stop", "faulted", "except");
template.sendBody("direct:input","finish");
template.sendBody("direct:input","stop");
template.sendBody("direct:input","fault");
Actual fix
MockEndpoint end=getMockEndpoint("mock:end");
end.expectedMessageCount(1);
MockEndpoint complete=getMockEndpoint("mock:complete");
complete.expectedBodiesReceivedInAnyOrder("finish", "stop", "faulted", "except");
template.sendBody("direct:input", "finish");
template.sendBody("direct:input","stop");
template.sendBody("direct:input","fault");
Proposed fix
MockEndpoint end=getMockEndpoint("mock:end");
end.expectedMessageCount(1);
MockEndpoint complete=getMockEndpoint("mock:complete");
complete.expectedBodiesReceivedInAnyOrder("finish", "stop", "faulted", "except");
template.sendBody("direct:input", "finish");
template.sendBody("direct:input", "stop");
template.sendBody("direct:input","fault");
20. The proposed fix helps you to understand the required change *
   Mark only one oval.
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21. The proposed fix can be a reference if you were to create your own fix *
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   Strongly disagree
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22. The proposed fix is harmful or confusing *
   Mark only one oval.
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23. The proposed fix does not make sense and I will just ignore it  $\mbox{\ensuremath{^\star}}$ 

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## **Proposed fix**

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7/15

```
random.nextBytes(toAppend);
out=(HdfsDataOutputStream)fs.append(file);
out.write(toAppend);
out.hflush();
Actual fix
random.nextBytes(toAppend);
out=(HdfsDataOutputStream)fs.append(file);
out.write(toAppend);
out.hsync(EnumSet.of(HdfsDataOutputStream.SyncFlag.UPDATE_LENGTH));
Proposed fix
random.nextBytes(toAppend);
out=(HdfsDataOutputStream)fs.append(file);
out.write(toAppend);
out.flushOrSync();
35. The proposed fix helps you to understand the required change *
    Mark only one oval.
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38. The proposed fix does not make sense and I will just ignore it *
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44.	Any comments						
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## **Actual fix**

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#### 12/15

59. Any comments

### Original problematic code

```
if (dirMatcher.matches(dir)) {
    StartLog.debug("Following dir: " + dir);
    if (includeDirsInResults && fileMatcher.matches(dir))
{
        addHit(dir);
    }
    return FileVisitResult.CONTINUE;
}
else {
    StartLog.debug("Skipping dir: " + dir);
    return FileVisitResult.SKIP_SUBTREE;
}
```

#### **Actual fix**

```
if (dirMatcher.matches(dir)) {
    StartLog.trace("Following dir: " + dir);
    if (includeDirsInResults && fileMatcher.matches(dir))
{
        addHit(dir);
    }
    return FileVisitResult.CONTINUE;
}
else {
    StartLog.trace("Skipping dir: " + dir);
    return FileVisitResult.SKIP_SUBTREE;
}
```

### **Proposed fix**

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	Strongly disagree						Strongly agree				
4.	Any comments										

```
if (number == null) {
  return null;
}
return new BigInteger(number.toString());
Actual fix
if (number == null) {
  return null;
}
return number.toBigInteger();
Proposed fix
if (number == null) {
  return null;
}
return new toHexString(number.toString());
65. The proposed fix helps you to understand the required change *
    Mark only one oval.
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66. The proposed fix can be a reference if you were to create your own fix *
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67. The proposed fix is harmful or confusing *
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    Strongly disagree
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```

88.	The proposed fix does not make sense and I will just ignore it *  Mark only one oval.									
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	Strongly disagree						Strongly agree			
9.	Any comments									
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# Proposed fix

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