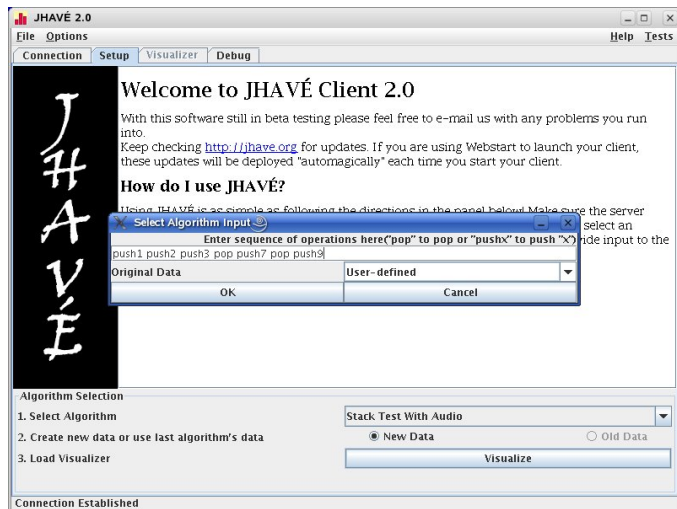


If script-producing programs take their input from command-line parameters, what happens when the server runs them?



That use input widget corresponds to an input generator  
“igs” file with the following DTD

```
<!ELEMENT input_panel ( (textfield | combobox)* )>
<!ELEMENT textfield (label_line*, default_field, value_entered)>
<!ELEMENT label_line (#PCDATA)>
<!ELEMENT default_field (#PCDATA)>
<!ELEMENT value_entered (#PCDATA)>
<!ELEMENT combobox (label_line*, option*, option_entered)>
<!ELEMENT option (#PCDATA)>
<!ELEMENT option_entered (#PCDATA)>
```

## The *stacktest\_with\_audio.igs* looks like ...

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE show PUBLIC "-//JHAVE//DTD INPUT PANEL//EN" "input_panel.dtd">

<input_panel>
  <textfield>
    <label_line>Enter sequence of operations here("pop" to pop or "pushx" to push "x")</label_line>
    <default_field>push1</default_field>
    <value_entered></value_entered>
  </textfield>
  <combobox>
    <label_line>Original Data</label_line>
    <option>User-defined</option>
    <option>Random</option>
    <value_entered></value_entered>
  </combobox>
</input_panel>
```

## So *main* in *JoeStackTest* is really launched by ... I

```
// File: stacktest_with_audio.java
// Author: Joseph Naps
// Date: 06-12-2006
// Use: Generates command line input for StackTest.java
// Audio added -- Joe's Dad - 06-15-2007

package exe.stacktest_with_audio;

import exe.*;
import java.io.*;
import java.lang.*;
import java.util.*;

public class stacktest_with_audio
{
    public static void main(String args[]) throws IOException
    {
        String[] params;
        Hashtable hash = XMLParameterParser.parseToHash(args[2]);

        // User has chosen to randomly generate input data
        if("Random".equals((String)hash.get("Original□Data"))) // UI label is hash key
        {
            params = new String[11];
            for(int i = 1; i < params.length; i++)
                params[i] = "push" + (int)(Math.random()*10);
        }
    }
}
```

## So *main* in *JoeStackTest* is really launched by ... II

```
// Parse given input into proper format
else
{
    String input = (String)hash.get
        ("Enter sequence of operations here (\pop\ to pop or \pushx\ to push \x\");
    StringTokenizer st = new StringTokenizer(input, "\");
    int count = 1;
    params = new String[st.countTokens()+1];
    while(st.hasMoreTokens())
    {
        params[count] = st.nextToken();
        count++;
    }
}
params[0] = args[0] + ".sho";
JoeStackTest.main(params);    // call the main method of the generation program
}
```