HW 5: Programming, Document, and Graphical Tools

Due: December 5

Overview: This is an assignment designed to give you practical experience with three sets of tools covered in class (programming, graphical, and document creation tools). The programming tools utilized are \mathtt{make} , \mathtt{gprof} , \mathtt{diff} , and the GNU C/C++ compiler. Graphviz, Imagemagick, and LaTeX/TikZ will be used for generating graphics in a document form.

Objective: Complete the following tasks (in the order presented) to visualize the execution of a small calendar tool called **remind**. Each problem will have one or more outputs, taking the form of a short answer (text), code, a PNG image, or a PDF. After completing each task, clearly specify which output is matched with each problem to receive credit.

1. Download the calendar utility remind with the URL

```
https://www.roaringpenguin.com/files/download/remind-03.01.15.tar.gz
```

and extract the contents. After running ./configure at the root of the directory, find the Makefile in the src folder (not at the root). The file you're looking for should have this at the top:

```
# Makefile.in for REMIND
#

SHELL= /bin/sh
BETA = 1
srcdir=.
prefix=/usr/local
exec_prefix=${prefix}
mandir=${datarootdir}/man
bindir=${exec_prefix}/bin
datadir=${datarootdir}
datarootdir=${prefix}/share

VERSION=03.01.15

INSTALL=/usr/bin/install -c
INSTALL_PROGRAM=${INSTALL}
INSTALL_DATA=${INSTALL} -m 644
```

After making a backup of this file, edit the Makefile so that it can be profiled with gprof. Explain the reasoning behind your change. Report (in this HW) the unified format (-u flag) output of the diff utility.

It is necessary to compile remind with the profiling flags (-pg). The compiler specified by remind is gcc, meaning that everywhere gcc is invoked in the Makefile, those profiling flags should be added.

The diff in unified format:

```
--- Makefile 2017-12-07 14:26:27.000000000 -0500
+++ Makefile.backup 2017-12-07 14:26:22.000000000 -0500
@@ -37,20 +37,17 @@
 all: remind rem2ps
-PROFILING_FLAGS='-pg'
 test: remind
  @sh ../tests/test-rem
 .c.o:
-gcc $(PROFILING_FLAGS) -c -g -02 -Wall -Wstrict-prototypes -DHAVE_CONFIG_H $(CEXTRA) $(LANGDEF) -:
+ gcc -c -g -02 -Wall -Wstrict-prototypes -DHAVE_CONFIG_H $(CEXTRA) $(LANGDEF) -I. -I$(srcdir) $<
rem2ps: rem2ps.o dynbuf.o
-gcc $(PROFILING_FLAGS) $(LDEXTRA) -o rem2ps rem2ps.o dynbuf.o
      $(LDEXTRA) -o rem2ps rem2ps.o dynbuf.o
remind: $(REMINDOBJS)
-gcc $(PROFILING_FLAGS) $(LDEXTRA) -o remind $(REMINDOBJS) -lm
       $(LDEXTRA) -o remind $(REMINDOBJS) -lm
```

2. Compile the code using using the Makefile of remind-03.01.15 package. Report where the remind executable is located within the package's directory after this step.

The remind executable is located in the src/directory of the package.

Explain

(a) How you might find remind if you read the Makefile, and

One of the targets of the Makefile is remind, and the action taken creates a binary of the same name with the -o flag. Assuming no other flag moves this output, the remind executable should be in the same directory as the Makefile.

(b) in general how you can find the (non-phony) targets of the Makefile without reading the Makefile at all (which is not always easy to read).

There are two ways of doing this, that rely on pretty big assumptions.

i. Assume that none of the targets exist in the unzipped package, and anything *created* after the fact is a target: Run the find command at the root of the package, and pipe the sorted

- results to a file. Compile with make, and pipe the find and sort command output to a different file, and compare the two with diff.
- ii. Assume that any file *modified* after the Make command is run is a target: Extract the package some arbitrary amount of time before compiling. Run the find command specifying that the only files returned should have been modified within k minutes (where Make was executed fewer than k minutes ago). This might look something like

```
find . -mmin -5 if make was run 4 minutes ago.
```

Note: You do not have to worry about installing any of the binaries produced (i.e. with make install). Hint: It might help to use a utility covered in the week_3.pdf slides.

3. Profile the remind executable using gprof. The command you will be profiling is

```
./remind ../examples/defs.rem
```

Report the 10 functions with the fewest calls as recorded in gmon.out.

My output looks like this:

0.00	0.00	0.00	1	0.00	0.00	CheckSafety
0.00	0.00	0.00	1	0.00	0.00	CreateParser
0.00	0.00	0.00	1	0.00	0.00	DoRun
0.00	0.00	0.00	1	0.00	0.00	DoSubstFromString
0.00	0.00	0.00	1	0.00	0.00	FChoose
0.00	0.00	0.00	1	0.00	0.00	FEasterdate
0.00	0.00	0.00	1	0.00	0.00	FIsomitted
0.00	0.00	0.00	1	0.00	0.00	FVersion
0.00	0.00	0.00	1	0.00	0.00	GetAccessDate
0.00	0.00	0.00	1	0.00	0.00	GreaterThan
0.00	0.00	0.00	1	0.00	0.00	IncludeFile
0.00	0.00	0.00	1	0.00	0.00	OpenFile
0.00	0.00	0.00	1	0.00	0.00	PopFile
0.00	0.00	0.00	1	0.00	0.00	SystemDate
0.00	0.00	0.00	1	0.00	0.00	trig_wday_func

4. Use gprof2dot to produce a dot file. Report the contents of the dot file here, and compile it with dot to produce a PNG.

Note: If you wish to run this from linprog (recommended), you will need to install both pip (the Python package manager) and gprof2dot locally (because you do not have sudo privileges). This can be done using the following steps:

(a) Get the pip install script:

```
wget https://bootstrap.pypa.io/get-pip.py
```

(b) Instruct the install script to install locally (in .local/bin):

```
python get-pip.py --user
```

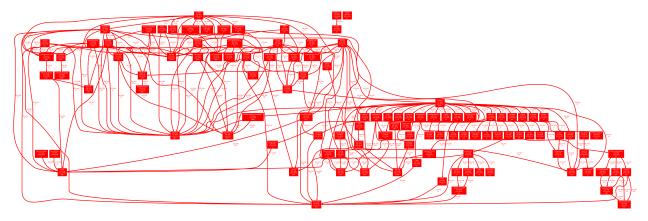
(c) Within .local/bin you will find pip . Install gprof2dot locally

```
./pip install gprof2dot --user
```

This will put the gprof2dot binary in the same directory as pip. Keep this in mind when using it (either by specifying its absolute path or by changing your PATH environment variable).

To copy images or other files produced from linprog, you might use WinSCP if you are on Windows or gFTP on Ubuntu (unless you are already comfortable with scp or sftp).

The rendered dot file (with dot) could look roughly as complex as this:



The above output was my graph. The contents of the DOT file were

```
digraph {
graph [fontname=Arial, nodesep=0.125, ranksep=0.25];
node [fontcolor=white, fontname=Arial, height=0, shape=box, style=filled, width=0];
edge [fontname=Arial];
2 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufPutcFN\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(
3 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufFree\n100.00%\n(100.00%)\n65
4 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseChar\n100.00%\n(100.00%)\n42
4 -> 30 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
4 -> 34 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
5 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrCmpi\n100.00%\n(100.00%)\n352
6 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="InsertIntoSortBuffer\n100.00\n(
7 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufInit\n100.00%\n(100.00%)\n233
 8 \ [color="\#ff0000", fontcolor="\#ffffff", fontsize="10.00", label="ParseExprToken.constprop.1\n100.00", la
8 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n3
8 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n:
9 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindToken\n100.00%\n(100.00%)\n98 (100.00%) \n98 (100.00%) 
9 -> 6 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n2
10 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindOperator\n100.00%\n(100.00%)
10 -> 5 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
11 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufPuts\n100.00%\n(100.00%)\n64 in the color in the c
11 -> 18 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

```
12 \ [color="\#ff0000", fontcolor="\#ffffff", fontsize="10.00", label="DBufGets\n100.00\%\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)\n(100.00\%)
12 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
12 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
12 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
12 -> 11 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
12 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
12 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
12 -> 29 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
12 -> 45 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
12 -> 71 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
13 \ \ \texttt{->} \ 115 \ \ \texttt{[arrowsize="1.00", color="\#ff0000", fontcolor="\#ff0000", fontsize="10.00", label="100.00", label="1
14 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindInitialToken\n100.00%\n(100
14 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
14 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
14 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
14 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
14 -> 29 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
15 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ReadLineFromFile\n100.00%\n(100
15 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
15 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
15 -> 11 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
15 -> 12 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
16 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DestroyParser\n100.00%\n(100.00%)
17 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DaysToHebYear\n100.00%\n(100.00%)
19 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseToken\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\
19 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
19 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
19 -> 4 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
20 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrinCmp\n100.00%\n(100.00%)\n4200 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrinCmp\n100.00%\n(100.00%)\n4200 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrinCmp\n100.00%\n(100.00%)\n4200 [color="#ffffff", fontsize="10.00", label="StrinCmp\n100.00%\n(100.00%)\n4200 [color="#fffffff", fontsize="10.00", label="StrinCmp\n100.00%]
21 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FromJulian\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\
22 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Evaluate\n100.00%\n(100.00%)\n60
22 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
22 -> 8 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
22 -> 10 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 22 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="339", label="339",
22 -> 23 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 27 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 28 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 32 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 47 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 53 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 58 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 61 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 68 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 73 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 76 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 79 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 80 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

```
22 -> 82 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 83 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 84 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 85 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 86 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
22 -> 112 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
22 -> 117 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
23 -> 5 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
24 \ [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrDup\n100.00%\n(100.00%)\n258"] | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 |
25 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="HashVal\n100.00%\n(100.00%)\n247610000", label="HashVal\n100.00%\n(100.00%)\n247610000")
26 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Julian\n100.00%\n(100.00%)\n2300  
27 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CopyValue\n100.00%\n(100.00%)\n200.00%
27 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
28 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GetVarValue\n100.00%\n(100.00%)\
28 -> 20 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
28 -> 35 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
29 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindNumericToken\n100.00%\n(100
29 -> 48 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
30 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
30 -> 22 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
31 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DaysInHebYear\n100.00%\n(100.00)
31 -> 17 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CallFunc\n100.00%\n(100.00%)\n160.00%
32 -> 27 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 54 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 60 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 65 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 67 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 72 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 77 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 78 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 90 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 93 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 98 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 99 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
32 -> 100 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 101 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 102 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 107 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 108 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 109 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
32 -> 110 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
33 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseNonSpaceChar\n100.00%\n(100.00)
33 -> 4 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
34 \ [color="\#ff0000", fontcolor="\#ffffff", fontsize="10.00", label="DoCoerce\n100.00%\n(100.00%)\n1300", label="DoCoerce\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n
34 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
34 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
35 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindVar\n100.00%\n(100.00%)\n12
35 -> 20 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

```
35 -> 36 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
36 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="StrnCpy\n100.00%\n(100.00%)\n123
37 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseIdentifier\n100.00\n(100.00)
37 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
37 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
37 -> 4 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
38 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FnPopValStack\n100.00%\n(100.00%)
39 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ComputeTrigger\n100.00%\n(100.00
39 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
39 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
39 -> 102 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
40 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoRem\n100.00%\n(100.00%)\n104"]
40 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
40 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 39 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 42 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 43 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 44 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 62 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 69 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 87 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
40 -> 89 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
41 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="EvaluateExpr\n100.00%\n(100.00%)
41 -> 30 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
42 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FreeTrig\n100.00%\n(100.00%)\n100.00%
43 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseRem\n100.00%\n(100.00%)\n100.00%
43 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00% in the color in the col
43 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00% in the color in the col
43 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
43 -> 12 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 29 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 36 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 45 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
43 -> 71 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
44 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ShouldTriggerReminder\n100.00%\n
45 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DateOK\n100.00%\n(100.00%)\n80"]
46 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DestroyUserFunc\n100.00%\n(100.00)
47 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CallUserFunc\n100.00%\n(100.00%)
47 -> 20 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
47 -> 22 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="70", label=
47 -> 25 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
47 -> 38 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
47 -> 46 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
48 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseLiteralDate\n100.00%\n(100
48 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

 $35 \rightarrow 25$ [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%" [arrowsize="1.00", color="#ff0000", fontsize="10.00", label="100.00%"]

```
48 -> 45 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
49 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoSet\n100.00%\n(100.00%)\n68"]
49 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
49 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
49 -> 33 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
49 -> 37 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
49 -> 41 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
49 -> 50 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
50 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="SetVar\n100.00%\n(100.00%)\n68"]
50 -> 35 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
51 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GetValidHebDate\n100.00\n(100.0
51 -> 31 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
52 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="HebToJul\n100.00%\n(100.00%)\n63
52 -> 17 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
52 -> 31 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
53 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Add\n100.00%\n(100.00%)\n54"];
53 -> 34 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
54 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FHebdate\n100.00%\n(100.00%)\n52
54 -> 55 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
54 -> 56 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
55 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GetNextHebrewDate\n100.00%\n(100.00)
55 -> 51 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
55 -> 52 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
55 -> 57 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
56 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="HebNameToNum\n100.00%\n(100.00%)
56 \rightarrow 5 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\noinder" fontsize="1.00", color="#ff0000", fontsize="10.00", label="100.00%\noinder" fontsize="1.00", color="#ff0000", fontsize="1.00", label="1.00", labe
57 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="JulToHeb\n100.00%\n(100.00%)\n52
57 -> 17 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
57 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
57 -> 31 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
58 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Subtract\n100.00%\n(100.00%)\n42
59 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="VerifyEoln\n100.00%\n(100.00%)\n
59 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
59 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
59 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
60 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FToday\n100.00%\n(100.00%)\n41"]
61 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Compare\n100.00%\n(100.00%)\n33"
62 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="PurgeEchoLine\n100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.00%\n(100.
63 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoFset\n100.00%\n(100.00%)\n23"]
63 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
63 -> 4 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
63 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
63 -> 20 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 23 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 25 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 33 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 36 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 37 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
63 -> 46 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

```
64 [color="\#ff0000", fontcolor="\#ffffff", fontsize="10.00", label="DoIf\n100.00\\n(100.00\)\n23"];
64 -> 30 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
64 -> 41 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
64 -> 59 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
65 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FTrigdate\n100.00%\n(100.00%)\n2000 \n2000 \n2
66 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="truephase\n100.00%\n(100.00%)\n:
67 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FDay\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\
67 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
68 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LogNot\n100.00%\n(100.00%)\n13"]
69 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoSatRemind\n100.00%\n(100.00%)
69 -> 30 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
69 -> 39 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
69 -> 41 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
70 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoOmit\n100.00%\n(100.00%)\n11"]
70 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
70 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
70 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
70 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
70 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
70 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
70 -> 29 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
71 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="PushToken\n100.00%\n(100.00%)\n:
71 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
71 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
71 -> 11 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
72 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FWkdaynum\n100.00%\n(100.00%)\n:
73 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LogAND\n100.00%\n(100.00%)\n10"]
74 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CalcMinsFromUTC\n100.00%\n(100.00)
74 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
75 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoElse\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\\100.00\
76 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="EqualTo\n100.00%\n(100.00%)\n8"]
77 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FIif\n100.00%\n(100.00%)\n7"];
78 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FYear\n100.00%\n(100.00%)\n7"];
78 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
79 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LessThan\n100.00%\n(100.00%)\n7' = 10.00", label="LessThan\n100.00%\n(100.00%)\n(100.00%)\n7' = 10.00", label="LessThan\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)
80 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="Mod n100.00\% n(100.00\%) n7"];
81 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindSysVar\n100.00%\n(100.00%)\n
81 -> 5 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
82 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GetSysVar\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n
82 -> 81 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
83 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LessOrEqual\n100.00%\n(100.00%)
84 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="NotEqual\n100.00%\n(100.00%)\n6' = 10.00", label="NotEqual\n100.00%]
85 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GreaterOrEqual\n100.00\\n(100.00) \n(100.00) \n(100.0
86 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LogOR \n100.00\%\n(100.00\%)\n5"];
87 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="QueueReminder\n100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.0
88 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="SystemTime\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\
89 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="TriggerReminder\n100.00%\n(100.00)
89 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
89 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
89 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
89 -> 95 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
```

```
90 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FMoondate\n100.00%\n(100.00%)\n4
91 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="HuntPhase\n100.00%\n(100.00%)\n4
91 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
91 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
91 -> 66 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
91 -> 92 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
91 -> 94 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
91 -> 96 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
92 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="LocalToUTC\n100.00%\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%)\n(100.00%
92 -> 74 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
93 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="MoonStuff\n100.00%\n(100.00%)\n4
93 -> 91 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
94 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="UTCToLocal\n100.00\%\n(100.00\%)
94 -> 74 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
95 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="UserFuncExists\n100.00%\n(100.00
95 -> 20 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
95 -> 25 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
96 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="jdate\n100.00%\n(100.00%)\n4"];
97 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoSubst\n100.00%\n(100.00%)\n3"]
97 -> 2 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
97 -> 4 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n"
97 -> 11 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
97 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
97 -> 88 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
98 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FTrigdatetime\n100.00%\n(100.00%)
98 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
99 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FChar\n100.00%\n(100.00%)\n2"];
100 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FMon\n100.00%\n(100.00%)\n2"];
100 -> 98 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
101 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FValue\n100.00%\n(100.00%)\n2"]
101 -> 35 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
102 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="IsOmitted\n100.00%\n(100.00%)\n
102 -> 21 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
103 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CheckSafety\n100.00%\n(100.00%)
104 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="CreateParser\n100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.00\%\n(100.0
105 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoRun\n100.00%\n(100.00%)\n1"]
105 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
105 -> 5 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
105 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
105 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
105 -> 59 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
106 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoSubstFromString\n100.00%\n(100.00).
106 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
106 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"
106 -> 16 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00",
106 -> 88 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
106 -> 97 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
106 -> 104 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
107 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FChoose\n100.00%\n(100.00%)\n1
```

89 -> 97 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%" 89 -> 106 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%"

```
108 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FEasterdate\n100.00%\n(100.00%)
108 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
109 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FIsomitted\n100.00%\n(100.00%)"
110 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FVersion\n100.00%\n(100.00%)\n:
111 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GetAccessDate\n100.00\\n(100.00) \n(100.00) \n(100.0
111 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
112 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="GreaterThan\n100.00%\n(100.00%)
113 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="IncludeFile\n100.00%\n(100.00%)
113 -> 114 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
114 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="OpenFile\n100.00%\n(100.00%)\n:
114 -> 24 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
114 -> 103 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
115 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="PopFile\n100.00%\n(100.00%)\n1
116 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="SystemDate\n100.00%\n(100.00%)
116 -> 26 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00"
117 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="trig_wday_func\n100.00\n(100.00)
```

5. With TikZ, draw the root and first level of the tree produced by gprof2dot, and render it (as a PDF). Assuming that the root is DoRem (arbitrarily), I look in the DOT file to find all the ocurrences (outgoing edges) of the DoRem node:

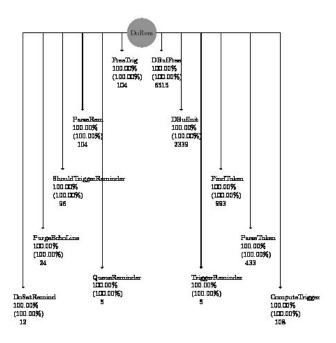
```
40 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoRem\n100.00%\n(100.00%)\n104"]
40 -> 3 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 7 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 9 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 19 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 39 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 42 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 43 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 44 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 62 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 87 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 89 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 80 [arrowsize="1.00", color="#ff0000", fontcolor="#ff0000", fontsize="10.00", label="100.00%\n
40 -> 80 [arrowsize="1.00", co
```

Then I find the nodes at the end of each edge above:

```
3 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufFree\n100.00%\n(100.00%)\n6557 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DBufInit\n100.00%\n(100.00%)\n2339 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FindToken\n100.00%\n(100.00%)\n959 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseToken\n100.00%\n(100.00%)\n39 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ComputeTrigger\n100.00%\n(100.00%)\n1042 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="FreeTrig\n100.00%\n(100.00%)\n1043 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ParseRem\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="ShouldTriggerReminder\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="PurgeEchoLine\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="PurgeEchoLine\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="DoSatRemind\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="QueueReminder\n100.00%\n(100.00%)\n1044 [color="#ff0000", fontcolor="#ffffff", fontsize="10.00", label="TriggerReminder\n100.00%\n(100.00%)\n1044 [color="#fffff", fontsize="10.00", label="TriggerReminder\n100.00%\n(100.00%)\n1044 [color="#fffff", fontsize="10.00", label="TriggerReminder\n100.00%\n(100.00%)\n1044 [color="#fffff", fontsize="10.00", label="TriggerReminder\n100.00%\n(100.00%)\n1044 [color="#fffff", fontsize="10.00", la
```

The labels contain the names of the functions called. These will be the text inside the TikZ nodes.

```
\documentclass{article}
\usepackage{tikz}
\begin{document}
\begin{tikzpicture}
\node[shape=circle,fill=gray] (dorem) at (3,0) {DoRem};
\label{localization} $$ \ \end{shape} = \circle, text width=1cm, align=center \end{shape} (1) at (4,-2) {DBufFree} (100.00\%\(100.00\\%)\(55.00) \end{shape} (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100.00) $$ (100
\label{localization} $$ \ \end{shape} = \circle, text width=1cm, a lign=center \end{shape} (2) at (5,-5) $$ $$ \ \end{shape} $$ \ \end{shape} (100.00\%) \ \end{shape} $$ \ \end{shape} (2) at (5,-5) $$ $$ \ \end{shape} $$ \ \end{shape} $$ \ \end{shape} $$ \ \end{shape} (100.00\\%) \ \end{shape} $$ \ \end{shape}
\node[shape=circle,text\ width=1cm,\ align=center] (5) at (10,-14) {ComputeTrigger\\100.00\%\\(100.00)
\label{locality} $$ \ \end{subarray} $$ \operatorname{shape=circle, text\ width=1cm,\ align=center} (6) at (2,-2) {FreeTrig}\100.00\%\\\(100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.000\% (100.00\%)\104.0000\% (100.00\%)\104.000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.00\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.000\%)\104.0000\% (100.0000\%)\104.0000\% (100.0000\%)\104.0000\% (100.0000\%)\104.0000\% (100.0
\node[shape=circle,text\ width=1cm,\ align=center] (7) at (0,-5) {ParseRem\\100.00\%\\(100.00\%)\\104.00\}
\node[shape=circle,text width=1cm, align=center] (8) at (-1,-8) {ShouldTriggerReminder\\100.00\%\\
\node[shape=circle,text\ width=1cm,\ align=center] (11) at (1,-13) {QueueReminder\\100.00\%\\(100.00)
\draw[->] (dorem) -| (1);
\draw[->] (dorem) -| (2);
\draw[->] (dorem) -| (3);
\draw[->] (dorem) -| (4);
\draw[->] (dorem) -| (5);
\draw[->] (dorem) -| (6);
\draw[->] (dorem) -| (7);
\draw[->] (dorem) -| (8);
\draw[->] (dorem) -| (9);
\draw[->] (dorem) -| (10);
\draw[->] (dorem) -| (11);
\draw[->] (dorem) -| (12);
\end{tikzpicture}
\end{document}
```



6. Extra Credit Use graphviz to create a circular call graph, and use Imagemagick to create a looping GIF of the call graph making a full rotation.

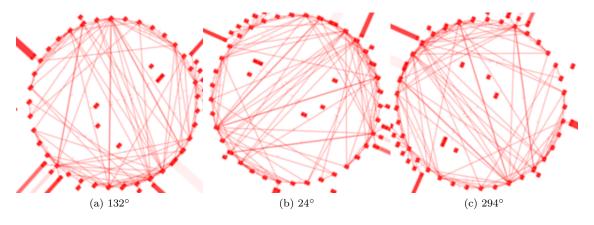


Figure 1: Sample output of the circular call graph rotation

Hint: You will want to use Imagemagick's -distort flag with the SRT distortion. Don't use the -rotate flag!

Note: There will be some distortion around the edges with SRT; this is OK.

```
# rotate images
for i in `seq 0 6 360`; do
    convert square_circo.jpg -distort SRT "$i" ${i}_graph.jpg;
done

# combine rotated images into gif
convert `ls -t *_graph.jpg` rotating_remind.gif
```

Submission:

Upload all the files in a single tar or zip file by the due date.