

CONTROLLED EXPERIMENT – SOURCE CODE

Smell Detection activities		
Set	Class	Package
A	Win32FileSystem.java	java.source/src/java/io
B	Win32PrintService.java	java.source/src/sun/print
Judgements of Refactoring activities		
Set	Class	Package
A	Win32OffScreenSurfaceData.java	java.source/src/sun/awt/windows
B	Win32SurfaceData.java	java.source/src/sun/awt/windows

DOWNLOAD: <https://bit.ly/2WordAS>

Class name: Win32FileSystem		
Smell	Method/line	Total
<i>Large Method</i>	Canonicalize (355) listRoots (538) normalize (98, 162) parentOrNull (435) resolve (200, 304)	7
<i>Large class</i>	Win32FileSystem (sim)	1
<i>Data Clumps</i>	normalizePrefix (65) e normalize (98) contem (String path, int len)	2
<i>Message Chains</i>	570	1
<i>Switch Statements</i>	parentOrNull (445), normalize (120), resolve(210), canonicalize (358)	4
<i>Typecast</i>	21, 23, 364, 372, 545, 556	6
<i>Instanceof</i>	Não possui	0
<i>Feature Envy</i>	Canonicalize (355) normalize (98) normalizePrefix (65) resolve (200)	4

Class name: Win32PrintService		
Smell	Method/Line	Total
<i>Large Method</i>	getDefaultAttributeValue (822) getSupportedAttributeValues (993) initMedia (317) getMediaSizes (465) isAttributeValueSupported (1223) Win32PrintService (199)	6
<i>Large Class</i>	Win32PrintService (sim)	1
Data Clumps	isAttributeValueSupported(1223) e getSupportedAttributeValues(993) contem (DocFlavor flavor, AttributeSet attributes)	2
<i>Message Chains</i>	1391	1
<i>Switch Statements</i>	findWin32Media (288) getDefaultAttributeValue (823) getAttribute (705) getSupportedAttributeValues (993) isAttributeValueSupported (1223)	5
<i>Typecast</i>	308, 350, 365, 1127, 1144, 1166, 1268, 1271, 1281, 1288, 1291, 1314	12
<i>Instanceof</i>	1129, 1280, 1283, 1313, 1386	5
<i>Feature Envy</i>	getDefaultAttributeValue (823) getMediaSizes (465) getMediaTrays (398) getSupportedAttributeValues (993) initMedia(317) isAttributeValueSupported (1223)	6

Class name: Win32OffScreenSurfaceData		
Smell	Line	Total
<i>Large Method</i>	getSurfaceType (80)	1
<i>Large class</i>	Win32OffScreenSurfaceData (sim)	1
<i>Data Clumps</i>	Não verificado	*
<i>Message Chains</i>	Não verificado	*
<i>Switch Statements</i>	getSurfaceType (80) validatePipe (190)	2
<i>Typecast</i>	99, 115, 129, 148, 327	5
<i>Instanceof</i>	98, 114, 125, 128, 342	5
<i>Feature Envy</i>	createData (144) getSurfaceType (80) validatePipe (190) Win32OffScreenSurfaceData (334)	4

*These smells were not used in this activity.

Class name: Win32SurfaceData		
Smell	Line	total
<i>Large Method</i>	getSurfaceType (271)	1
<i>Large Class</i>	Win32SurfaceData (sim)	1
<i>Data Clumps</i>	Não verificado	*
<i>Message Chains</i>	Não verificado	*
<i>Switch Statements</i>	Win32SurfaceData (62) getSurfaceType (271) validatePipe (335)	3
<i>Typecast</i>	277, 289, 300, 427, 433, 447	6
<i>Instanceof</i>	276, 288, 297, 299, 417, 426, 435, 436	8
<i>Feature Envy</i>	Win32SurfaceData (407) copyArea (461) getSurfaceType (271) validatePipe (335)	4

*These smells were not used in this activity.