type Code Style Design Code Style Design	issue OnlyOneReturn LawOfDemeter ConfusingTernary CyclomaticComplexity	rejected.max r 862 6859 128 204	rejected.min -1331 -20874 -299 -180	rejected.mean reje 6.895516e+00 -2.714603e+01 2.213492e+00 3.373097e+00	551 912 306 337	7 rejected.fixed_by 377 521 255 256	rejected.appeared_in 928 1433 561 593	1544 2744 83 79	-1543 -2744 -83 -183	-0.1184944238 0.3133519207 0.0092936803 -0.0466232962	2365 474 571	693 1125 392 412	1947 3490 866 983
Documentation Error Prone Code Style	CommentSize EmptyCatchBlock LongVariable	7661 112 447	-17037 -197 -427	3.257919e-01 6.762649e-01 -6.988893e-01	758 163 479	487 123 390	1245 286 869	7152 17 427	-7152 -72 -474	0.3310099133 -0.0083643123 0.0552973978	1683 189 1283	815 198 639	2498 387 1922
Documentation Code Style Code Style	CommentRequired ShortVariable LocalVariableCouldBeFinal	5316 5931 3561	-15216 -15551 -12347	4.858782e+01 9.826615e+01 3.168531e+01	1142 723 1062	523 407 536	1665 1130 1598	2244 1750 2897	-3067 -5618 -2917	-0.1171003717 -0.2496902107 -0.6394052045	2663 1246 2484	1087 672 1130	3750 1918 3614
Error Prone Multithreading	BeanMembersShouldSerialize UseConcurrentHashMap	1825 23	-4125 -44	2.625710e+01 -3.364870e-01	673 139	432 207	1105 346	979 32	–1364 –27	0.0715613383 -0.0111524164	1483 198	766 217	2249 415
Design Code Style Error Prone	CognitiveComplexity  MethodArgumentCouldBeFinal  NullAssignment	156 7071 154	-226 -13081 -299	2.438914e+00 1.206022e+02 1.981489e+00	326 1039 216	226 512 162	552 1551 378	51 8390 99	-138 -8390 -99	-0.0285006196 -0.7354399009 0.0068153656	486 2233 280	363 970 209	849 3203 489
Error Prone Design Code Style	CloseResource  NPathComplexity  FieldNamingConventions	80 79 348	-53 -91 -191	8.206499e-01 1.287125e+00 5.718223e+00	197 202 251	167 199 180	364 401 431	32 17 198	-178 -85 -198	-0.0876703841 -0.0272614622 0.0261771995	161 318 392	171 266 283	332 584 675
Code Style Design	UseUnderscoresInNumericLiterals GodClass	170 24	-186 -67	1.877417e+00 3.541752e-01	223 163	203 114	426 277	106 39	–122 –39	-0.0184324659 -0.0207558860	261 217	234 215	495 432
Design Performance	UnusedAssignment  NcssCount  AvoidInstantiatingObjectsInLoops	192 71 396	-180 -69 -1853	3.435623e+00 1.241053e+00 -2.027972e+00	248 161 211	123 95 290	371 256 501	26 10 62	-151 -69 -62	-0.0229244114 -0.0173482032 -0.0082094176	187 193 397	177 155 309	364 348 706
Best Practices Performance Design	GuardLogStatement  AddEmptyString  AvoidCatchingGenericException	191 37 109	-164 -96 -102	4.730564e-02 -3.299054e-01 1.791444e+00	138 56 251	100 139 153	238 195 404	151 62 89	-59 -82 -102	-0.0060408922 0.0229244114 0.0038723668	241 79 297	238 62 252	479 141 549
Error Prone Design	ProperLogger  ExcessiveMethodLength	3 77	-3 -69	4.771699e-02 1.197038e+00	51 176	14 107	65 283	3 11	-3 -63	-0.0015489467 -0.0176579926	9 204	17 176	26 380
Code Style Performance Documentation	CallSuperInConstructor OptimizableToArrayCall UncommentedEmptyConstructor	281 5 20	-618 -7 -24	2.402304e-01 -6.417112e-02 2.702592e-01	213 51 149	129 89 76	342 140 225	335 5 96	-335 -5 -96	0.0063506815 -0.0018587361 -0.0063506815	265 24 126	202 31 120	467 55 246
Error Prone Code Style Design	AvoidCatchingThrowable  CommentDefaultAccessModifier  CouplingBetweenObjects	366 2447 2	-612 -6768 -4	-3.426573e-01 1.057425e+01 -2.468120e-03	94 531 20	140 368 25	234 899 45	70 2849 3	-70 -2849 -3	0.0362453532 0.3480483271 -0.0029429988	270 950 36	154 520 51	424 1470 87
Error Prone Design	ReturnEmptyCollectionRatherThanNull TooManyMethods	33 44	-33 -274	2.538050e-01 1.748252e-01	107 230	41 168	148 398	24 203	-24 -203	-0.0044919455 -0.0030978934	66 354	82 271	148 625
Design Design Best Practices	ExcessiveImports  MutableStaticState  DoubleBraceInitialization	11 62 8	–11 –57 –28	-7.980255e-02 1.044426e+00 -3.085150e-02	118 142 56	167 108 17	285 250 73	17 59 13	–17 –58 –14	-0.0015489467 -0.0165737299 -0.0069702602	243 96 19	190 93 18	433 189 37
Code Style Error Prone Error Prone	UseShortArrayInitializer AvoidDuplicateLiterals EmptyIfStmt	24 263 7	–19 –609 –11	2.299465e-01 -3.809132e-01 4.689428e-02	131 278 98	151 231 58	282 509 156	20 61 11	–18 –63 –11	-0.0043370508 0.0235439901 -0.0040272615	102 574 47	95 388 58	197 962 105
Code Style Best Practices	LinguisticNaming UseVarargs	91 221	-140 -203	-1.686549e-02 3.992184e+00	130 212	141 179	271 391	30 79	-35 -195	-0.0165737299 -0.0323729864	164 202	138 155	302 357
Code Style  Best Practices  Design	UnnecessaryFullyQualifiedName JUnitTestContainsTooManyAsserts ImmutableField	422 208 58	-602 -1053 -58	-1.670506e+00 -1.684903e+00 2.665570e-01	148 238 254	176 280 175	324 518 429	64 144 125	-274 -141 -76	-0.1939281289 0.1341387856 0.0433705081	237 709 373	249 388 270	486 1097 643
Best Practices Best Practices Best Practices	JUnitTestsShouldIncludeAssert  JUnitAssertionsShouldIncludeMessage  MethodReturnsInternalArray	325 1096 7	-2765 -4640 -5	-2.392842e+00 -1.037845e+01 9.173180e-02	212 371 94	201 385 39	413 756 133	104 1876 4	–105 –2011 –7	0.0199814126 0.8855328377 -0.0003097893	355 1150 58	289 568 52	644 1718 110
Code Style  Design  Code Style	UseDiamondOperator SignatureDeclareThrowsException UnnecessaryImport	1615 57 1268	-2097 -437 -3151	-2.424517e+00 -1.617441e+00 -5.651995e-01	314 159 476	267 195 307	581 354 783	160 75 54	-327 -82 -97	-0.0023234201 -0.0531288724 0.1048636927	457 293 861	299 246 636	756 539 1497
Code Style Best Practices	AtLeastOneConstructor  JUnit5TestShouldBePackagePrivate	145 1934	-685 -5095	-1.344714e+00 -3.646647e+00	458 82	406 124	864 206	113 848	–131 –175	-0.0557620818 0.4862143742	1137 188	587 96	1724 284
Error Prone Performance Design	AssignmentInOperand InsufficientStringBufferDeclaration CollapsibleIfStatements	31 7 64	-107 -9 -68	3.035788e-01 4.319210e-02 9.580420e-01	151 82 173	151 42 109	302 124 282	41 9 11	-82 -8 -31	-0.0185873606 -0.0010842627 -0.0082094176	110 64 160	109 60 168	219 124 328
Design Performance Best Practices	UseUtilityClass  AvoidFileStream  AvoidPrintStackTrace	30 34 146	-46 -37 -141	-6.709173e-01 4.158782e-01 2.261209e+00	233 84 194	267 67 138	500 151 332	7 8 74	-9 -37 -107	0.0038723668 -0.0063506815 0.0339219331	240 58 174	162 57 138	402 115 312
Code Style Best Practices	NoPackage UseTryWithResources	11 28	-3 -34	2.756067e-02 -6.593994e-01	156 51	76 131	232 182	7 26	-7 -52	0.0012391574 -0.0193618340	23 78	12 86	35 164
Best Practices Performance Best Practices	SystemPrintIn  RedundantFieldInitializer  AvoidReassigningParameters	491 106 386	-476 -107 -369	1.849033e+00 4.598930e-01 6.999177e+00	354 249 176	243 197 208	597 446 384	143 81 97	-1060 -63 -374	-0.2670384139 0.0072800496 -0.0676889715	451 313 218	260 229 206	711 542 424
Design Error Prone Design	TooManyFields  AvoidFieldNameMatchingMethodName  ExcessivePublicCount	30 98 21	-25 -278 -110	5.405183e-01 1.695187e+00 1.246401e-01	126 165 111	55 125 71	181 290 182	10 246 26	-21 -246 -26	-0.0021685254 0.0102230483 0.0004646840	102 225 98	95 153 68	197 378 166
Best Practices Code Style	UnusedPrivateField LocalVariableNamingConventions	13 272	-5 -67	5.059646e-02 9.259564e-01	131 175	114 146	245 321	81 59	-81 -52	0.0173482032 -0.0085192069	180 129	163 104	343 233
Design Code Style Code Style	SingularField TooManyStaticImports MethodNamingConventions	51 57 137	-52 -60 -131	8.819416e-01 -1.098313e-01 2.230769e+00	159 77 175	73 101 164	232 178 339	15 25 142	-54 -25 -152	-0.0006195787 -0.0097583643 -0.1864931846	112 158 442	114 148 247	226 306 689
Error Prone Error Prone Code Style	EqualsNull AvoidLiteralsInIfCondition PrematureDeclaration	1 331 52	-2 -447 -36	4.113534e-04 5.194570e+00 6.972439e-01	3 284 184	1 226 167	4 510 351	0 54 20	–1 –266 –29	-0.0001548947 -0.0221499380 -0.0091387856	0 435 236	1 338 210	1 773 446
Code Style  Design  Code Style	UselessParentheses  ExcessiveClassLength  GenericsNaming	1621 20 17	-1578 -49 -102	2.971534e+01 2.719046e-01 -1.102427e-01	250 105 18	251 59 19	501 164 37	289 13 42	-1444 -15 -6	-0.2214993804 -0.0032527881 0.0109975217	370 70 17	328 61 10	698 131 27
Design Clase Error Prone	ussWithOnlyPrivateConstructorsShouldBeFinal UseLocaleWithCaseConversions	17 14 31	-14 -31	1.571370e-01 4.195804e-01	18 97 103	41 137	138 240	12 27	-8 -35	0.0017038414 -0.0029429988	17 53 76	10 52 59	27 105 135
Error Prone Performance Multithreading	EmptyInitializer  ConsecutiveLiteralAppends  AvoidSynchronizedAtMethodLevel	8 22 62	-8 -18 -64	-1.028383e-02 1.044838e-01 -1.246401e-01	1 91 77	5 32 141	6 123 218	8 37 22	-8 -37 -64	-0.0004646840 0.0236988848 -0.0247831475	1 73 100	4 55 127	5 128 227
Design Performance Best Practices	AvoidThrowingRawExceptionTypes ConsecutiveAppendsShouldReuse PreserveStackTrace	152 34 56	-239 -35 -51	1.842040e+00 1.760592e-01 8.654875e-01	167 90 91	103 32 68	270 122 159	28 60 24	-130 -60 -44	0.0065055762 0.0364002478 -0.0015489467	205 89 78	145 68 58	350 157 136
Multithreading Best Practices	DoNotUseThreads ForLoopCanBeForeach	117 98	-242 -42	-4.644179e-01 1.497738e+00	115 135	130 130	245 265	133 46	–133 –45	0.0153345725 -0.0175030979	190 83	150 111	340 194
Documentation  Code Style  Best Practices	UncommentedEmptyMethodBody UnnecessaryConstructor LooseCoupling	143 14 51	-551 -10 -42	4.409708e-01 2.023858e-01 4.356232e-01	247 122 137	119 43 129	366 165 266	109 12 29	-162 -12 -34	-0.0887546468 -0.0111524164 -0.0137856258	298 60 79	265 87 85	563 147 164
Performance Performance Error Prone	InefficientEmptyStringCheck AppendCharacterWithChar UseProperClassLoader	3 159 16	-4 -18 -13	-3.290827e-03 1.242287e-01 2.842452e-01	19 126 83	13 56 32	32 182 115	4 159 13	-4 -13 -13	-0.0009293680 0.0723358116 -0.0066604709	8 75 54	11 97 55	19 172 109
Error Prone Code Style Error Prone	CompareObjectsWithEquals  ControlStatementBraces  EmptyWhileStmt	118 1585 4	-33 -1446 -30	8.268202e-01 2.591403e+01 4.113534e-03	115 328 65	42 235 23	157 563 88	106 106 9	-106 -1330 -6	-0.0007744734 -0.2894981413 0.0018587361	48 399 20	48 240 13	96 639 33
Design Error Prone	ExceptionAsFlowControl UseCorrectExceptionLogging	6	-5 -1	-5.882353e-02 0.000000e+00	9 1	71 1	80 2	6 0	-6 -1	0.0010842627 -0.0006195787	10 0	7 4	17 4
Design Error Prone Documentation	AvoidRethrowingException AvoidAccessibilityAlteration CommentContent	6 8 0	-4 -6 0	5.347594e-03 -1.406828e-01 0.000000e+00	28 28 0	23 86 0	51 114 0	6 44 0	-3 -26 0	0.0037174721 -0.0021685254 0.0000000000	29 65 0	17 59 0	46 124 0
Code Style  Best Practices  Design	FieldDeclarationsShouldBeAtStartOfClass ForLoopVariableCount AvoidDeeplyNestedIfStmts	331 22 47	-337 -12 -70	4.814068e+00 2.143151e-01 -2.040313e-01	286 79 67	181 62 173	467 141 240	793 5 5	-793 -30 -19	0.0030978934 -0.0127013631 -0.0082094176	435 58 109	304 51 136	739 109 245
Code Style Error Prone Best Practices	ShortClassName  MissingSerialVersionUID  LiteralsFirstInComparisons	26 36 171	-40 -20	-6.170300e-03 5.290004e-01 2.577951e+00	171 110 169	171 100 76	342 210	25 73 20	–25 –73 –124	-0.0069702602 -0.0021685254 -0.0481722429	152 66 162	106 60 159	258 126 321
Error Prone Best Practices	AvoidInstanceofChecksInCatchClause SimplifiableTestAssertion	11 30	–114 –18 –28	1.735911e-01 -1.933361e-01	73 37	15 164	245 88 201	12 28	-124 -9 -28	0.0060408922 -0.0043370508	36 67	27 63	63 130
Best Practices Best Practices Error Prone	AvoidStringBufferField  ArrayIsStoredDirectly  ConstructorCallsOverridableMethod	1 30 30	-2 -50 -20	-3.414233e-02 1.151789e-01 5.117236e-01	17 130 127	84 107 88	101 237 215	1 23 17	-3 -23 -20	-0.0009293680 0.0100681537 -0.0072800496	16 104 76	19 61 92	35 165 168
Design Design	DataClass UseObjectForClearerAPI	39 30	–21 –7	4.730564e-02 1.912793e-01	160 74	122 12	282 86	109 18	–13 –6	0.0261771995 0.0106877323	297 35	178 23	475 58
Design Best Practices	JUnit4TestShouldUseBeforeAnnotation  ExcessiveParameterList  AbstractClassWithoutAbstractMethod	11 58 13	–11 –58 –20	-1.275195e-02 1.148910e+00 -7.980255e-02	18 94 44	19 33 84	37 127 128	8 10 8	-7 -57 -10	0.0027881041 -0.0089838910 0.0000000000	61 72 52	59 54 43	120 126 95
Code Style  Best Practices  Performance	ShortMethodName UseCollectionIsEmpty InefficientStringBuffering	14 12 9	-62 -8 -7	2.015631e-01 -3.167421e-02 4.236940e-02	70 61 73	45 102 33	115 163 106	140 5 5	-140 -10 -11	-0.0052664188 -0.0065055762 -0.0010842627	34 79 17	43 78 19	77 157 36
Error Prone Error Prone Best Practices	SimpleDateFormatNeedsLocale  DetachedTestCase  UnusedLocalVariable	2 8 27	-2 -5 -19	0.000000e+00 4.936240e-03 1.637186e-01	8 10 174	8 7 64	16 17 238	6 2 16	-6 -2 -11	-0.0004646840 0.0003097893 0.0065055762	17 18 195	18 15 149	35 33 344
Design Error Prone	FinalFieldCouldBeStatic EmptyFinallyBlock	4 5	-4 -2	2.097902e-02 2.879473e-03	52 4	25 1	77 5	12 6	–12 –6	0.0080545229 0.0046468401	49 14	30 4	79 18
Error Prone Error Prone Design	ImplicitSwitchFallThrough AvoidFieldNameMatchingTypeName AvoidUncheckedExceptionsInSignatures	19 2 42	-18 -2 -29	3.504731e-01 -8.638420e-03 -5.471000e-02	65 30 32	14 43 82	79 73 114	15 3 34	-18 -3 -29	-0.0032527881 0.0010842627 0.0006195787	25 31 36	27 22 31	52 53 67
Code Style Code Style Best Practices	UnnecessaryModifier UnnecessaryLocalBeforeReturn OneDeclarationPerLine	357 20 241	-332 -17 -231	6.946935e+00 2.760181e-01 4.278486e+00	192 165 150	75 122 141	267 287 291	88 10 13	-699 -10 -206	-0.1339838910 0.0027881041 -0.0430607187	159 144 107	124 135 83	283 279 190
Best Practices Code Style Best Practices	JUnitUseExpected  BooleanGetMethodName  UnusedFormalParameter	107 5 12	-162 -4 -15	-1.057178e-01 9.337721e-02 -2.254216e-01	21 86 80	22 23 127	43 109 207	22 3 156	-17 -2 -156	0.0061957869 -0.0006195787 0.0089838910	48 28 106	39 29 92	87 57 198
Best Practices Best Practices Code Style	ReplaceHashtableWithMap  JUnit4TestShouldUseTestAnnotation  UnnecessaryAnnotationValueElement	17 246 27	-20 -285 -48	2.957631e-01 -4.113534e-03 -1.768819e-02	62 52 14	9 38 21	71 90 35	18 284 41	-4 -151 -8	0.0012391574 -0.1025402726 0.0127013631	1 344 44	5 183 34	6 527 78
Code Style Performance	FinalParameterInAbstractMethod AvoidCalendarDateCreation	2	-5 -1	-2.180173e-02 -8.227067e-04	13	59 3	72 4	10 7	–18 –7	0.0004646840 -0.0007744734	18 3	11 8	29 11
Performance Code Style Design	BigIntegerInstantiation UnnecessaryCast SimplifyConditional	1 18 2	-2 -17 -2	-4.113534e-03 3.344303e-01 -2.879473e-03	1 60 5	7 5 11	8 65 16	9 8 10	0 -17 -2	0.0018587361 -0.0003097893 0.0013940520	3 9 7	0 5 6	3 14 13
Performance Design Multithreading	UselessStringValueOf SimplifyBooleanReturns AvoidUsingVolatile	1 6 165	-1 -6 -238	-2.262443e-02 2.221308e-02 1.221719e-01	10 101 142	65 52 102	75 153 244	4 5 38	-4 -5 -38	-0.0052664188 0.0007744734 0.0097583643	8 71 206	18 66 164	26 137 370
Design Performance	AvoidThrowingNullPointerException AvoidArrayLoops	28	-26 -12	1.764706e-01 1.814068e-01	86	42 54	128 112	43	-47 -12	-0.0137856258 -0.0006195787	87 12	65 8	152 20
Error Prone M Code Style Error Prone	lissingStaticMethodInNonInstantiatableClass IdenticalCatchBranches SuspiciousEqualsMethodName	1 18 2	-3 -24 -2	-1.234060e-03 2.702592e-01 4.113534e-04	88 6	52 5	140 11	28 2	-12 -28 -2	-0.0015489467 0.0032527881 -0.0003097893	59 6	5 41 7	100 13
Code Style Best Practices Performance	FormalParameterNamingConventions  ReplaceVectorWithList  StringInstantiation	115 15 15	-42 -15 -13	-5.252982e-01 2.673797e-01 2.517483e-01	74 67 79	167 5 15	241 72 94	16 2 9	–11 –10 –5	0.0099132590 -0.0021685254 0.0000000000	57 2 7	29 2 8	86 4 15
Error Prone Design	DoNotCallGarbageCollectionExplicitly AbstractClassWithoutAnyMethod	2 8	-48 -8	-2.961744e-02 -4.113534e-03	12 11	18 8	30 19	2 8	–11 –2	-0.0029429988 0.0021685254	7 7 12	8 13 7	20 19
Best Practices Code Style Best Practices	PrimitiveWrapperInstantiation PackageCase JUnit4TestShouldUseAfterAnnotation	45 13 5	–19 –81 –3	4.171123e-01 -3.636364e-01 1.645413e-03	89 50 8	39 100 8	128 150 16	42 9 3	-49 -9 -3	0.0006195787 0.0055762082 0.0010842627	39 82 45	13 22 50	52 104 95
Performance Best Practices Best Practices	UseStringBufferForStringAppends CheckResultSet UseStandardCharsets	55 0 7	-65 0 -6	-1.128342e+00 0.000000e+00 2.056767e-03	106 0 11	107 0 8	213 0 19	20 1 8	-52 -2 -6	-0.0071251549 -0.0007744734 0.0060408922	45 1 31	46 4 18	91 5 49
Design Error Prone	SimplifyBooleanExpressions SingleMethodSingleton	9 12 10	-5 -12	9.666804e-02 4.113534e-03	100 4	25 2	125 6	2 12 4	-22 -3	-0.0057311029 0.0030978934	18 7	21	39 8
Performance Error Prone Best Practices	UseIndexOfChar SingletonClassReturningNewInstance UnusedPrivateMethod	10 17 37	-7 -17 -33	7.116413e-02 2.468120e-03 -3.290827e-03	71 11 61	38 5 85	109 16 146	4 17 23	-7 -1 -8	-0.0009293680 0.0049566295 0.0103779430	26 12 97	27 5 77	53 17 174
Best Practices Error Prone Clo	AvoidReassigningLoopVariables oneMethodReturnTypeMustMatchClassName ProperCloneImplementation	28 7 6	-16 -4 -1	3.204443e-01 6.746195e-02 9.872480e-03	104 55 8	37 8 9	141 63 17	14 2 1	-28 -7 -13	-0.0018587361 -0.0023234201 -0.0096034696	27 3 5	36 5 12	63 8 17
Error Prone Error Prone Design	AvoidLosingExceptionInformation  BrokenNullCheck  UselessOverridingMethod	0 13 4	0 -1 -6	0.000000e+00 6.993007e-03 -2.056767e-03	0 6 30	0 1 22	0 7 52	9 1 28	-9 -1 -28	0.0003097893 -0.0001548947 -0.0020136307	3 1 22	2 2 28	5 3 50
Error Prone Design Error Prone	EmptyStatementNotInLoop  LogicInversion  UnnecessaryBooleanAssertion	8 2 5	-32 -9 -5	6.663924e-02 -4.936240e-03 -1.645413e-03	104 1 4	28 6 5	132 7 9	5 2 5	-4 -2 -3	-0.0018587361 0.0003097893 0.0001548947	30 9 5	38 6 4	68 15 9
Code Style Code Style	UnnecessaryReturn ClassNamingConventions	31 14	-2 -31	3.784451e-02 5.002057e-01	61 97 66	6 97	9 67 194 84	4 42 4	-4 -57	-0.0004646840 -0.0566914498	4 84	4 4 114 11	9 8 198 23
Design Error Prone Error Prone	SwitchDensity TestClassWithoutTestCases UseEqualsToCompareStrings	14 5 87	-14 -2 -3	2.570958e-01 1.645413e-03 2.217195e-01	66 4 24	18 2 56	84 6 80	4 2 4	-10 -1 -1	-0.0009293680 -0.0012391574 0.0004646840	12 5 8	11 14 11	23 19 19
Best Practices Error Prone Best Practices	WhileLoopWithLiteralBoolean DoNotTerminateVM SwitchStmtsShouldHaveDefault	5 5 69	-5 -6 -66	-8.638420e-03 -7.404360e-02 1.224188e+00	10 26 99	16 100 39	26 126 138	2 5 11	-10 -5 -62	-0.0010842627 -0.0015489467 -0.0106877323	3 8 42	2 16 43	5 24 85
Error Prone Performance Error Prone	NonStaticInitializer TooFewBranchesForASwitchStatement AssignmentToNonFinalStatic	1 6 32	-5 -9 -29	-4.936240e-03 5.388729e-02 5.787742e-01	1 86 88	4 26 27	5 112 115	5 9 7	-1 -10 -10	0.0003097893 -0.0009293680 -0.0004646840	6 34 12	9 30 12	15 64 24
Error Prone Error Prone	MethodWithSameNameAsEnclosingClass DoNotExtendJavaLangThrowable	1	0 -2	8.227067e-04 -1.645413e-03	2	0 4	2 6	0 1 7	–1 –1	-0.0001548947 0.0003097893	0 4	1 2	1 6
Design Error Prone	SimplifiedTernary  DoNotThrowExceptionInFinally	12 5 1	-12 -4 -1	1.197038e-01 7.897984e-02 -8.227067e-04	57 60 23	17 5 25	74 65 48	7 2 3	-7 -9 -2	-0.0001548947 -0.0006195787 0.0003097893	11 11 7	10 8 5	21 19 12
Error Prone Best Practices Best Practices	UnconditionallfStatement AvoidReassigningCatchVariables ConstantsInInterface	2 1 276	-2 -14 -276	4.401481e-02 -5.347594e-03 5.305636e+00	57 7 80	2 4 34	59 11 114	2 1 14	-1 -2 -188	0.0004646840 -0.0006195787 -0.0652106568	4 4 97	2 6 80	6 10 177
Code Style Performance Error Prone	UselessQualifiedThis UseArraysAsList DontUseFloatTypeForLoopIndices	6 2 0	-9 -2 -2	-4.278075e-02 1.645413e-02 -1.645413e-03	37 46 0	62 23 2	99 69 2	7 2 2	-4 -2 0	0.0010842627 0.0001548947 0.0003097893	15 4 1	15 3 0	30 7 1
Best Practices  Code Style Em	DefaultLabelNotLastInSwitchStmt nptyMethodInAbstractClassShouldBeAbstract	3 48	-2 -54	1.933361e-02 -2.114356e-01	52 31 81	7 98	59 129	1 48	-2 -22	0.0003097893 0.0049566295	5 45 31	52 37	7 97 68
Multithreading Error Prone Error Prone	NonThreadSafeSingleton  ComparisonWithNaN  AvoidCatchingNPE	23 4 18	-20 -4 -45	4.031263e-01 -2.056767e-03 4.113534e-02	81 1 81	23 3 20	104 4 101	5 2 13	-16 -4 -13	-0.0048017348 0.0000000000 -0.0001548947	31 2 17	37 1 19	68 3 36
Best Practices Performance Error Prone	MissingOverride StringToString OverrideBothEqualsAndHashcode	27 2 19	-24 -1 -18	4.763472e-01 1.439737e-02 -3.422460e-01	56 43 7	15 9 73	71 52 80	39 1 16	–39 –1 –16	-0.0012391574 -0.0004646840 -0.0027881041	10 3 6	5 6 9	15 9 15
Error Prone Error Prone Error Prone	AvoidBranchingStatementAsLastInLoop  NonCaseLabelInSwitchStatement  CallSuperFirst	6 0 1	-8 0 -1	-4.031263e-02 0.000000e+00 -1.645413e-03	35 0 1	82 0 5	117 0 6	16 0 1	-16 0 -1	-0.0024783147 0.0000000000 0.0000000000	36 0 1	39 0 1	75 0 2
Code Style Error Prone	AvoidDollarSigns UnnecessaryCaseChange	2	–19 –3	-8.638420e-03 5.964624e-02	1 5 48	5 2 29	6 7 77	1 126 4	–126 –4	-0.0013940520 -0.0001548947	1 15 3	1 12 4	2 27 7
Code Style Performance Code Style	AvoidUsingNativeCode UseArrayListInsteadOfVector AvoidProtectedFieldInFinalClass	4 5 18	0 -5 -19	2.468120e-03 1.011929e-01 -3.290827e-03	2 66 60	0 10 15	2 76 75	8 1 15	-2 -4 -19	0.0009293680 -0.0004646840 -0.0060408922	4 3 14	4 3 17	8 6 31
	voidDecimalLiteralsInBigDecimalConstructor FinalizeDoesNotCallSuperFinalize AvoidUsingHardCodedIP	1 1 22	-1 -1 -28	-4.113534e-04 -1.398601e-02 -7.239819e-02	1 14 32	2 48 69	3 62 101	1 1 21	0 -1 -13	0.0001548947 0.0000000000 -0.0027881041	1 2 38	0 2 61	1 4 99
Error Prone Error Prone	DontImportSun  JumbledIncrementer	1 0	-23 -4	-1.234060e-03 -1.192925e-02	3 0 2	6 3 5	9 3 7	2 2	-2 -8	-0.0003097893 -0.0026332094	6 1 3	7 4	13 5 4
Error Prone  Multithreading  Design	CallSuperLast UnsynchronizedStaticFormatter DoNotExtendJavaLangError	2 59 0	-4 -53 0	-2.879473e-03 1.126697e+00 0.000000e+00	2 55 0	5 4 0	7 59 0	2 6 1	-1 -53 -1	0.0006195787 -0.0072800496 0.00000000000	3 6 1	1 4 1	4 10 2
Multithreading Error Prone Error Prone	UseNotifyAllInsteadOfNotify CheckSkipResult UnusedNullCheckInEquals	2 0 1	-3 0 -1	1.809955e-02 0.000000e+00 -3.290827e-03	53 0 2	6 0 10	59 0 12	3 0 1	-3 -1 -1	0.0003097893 -0.0001548947 -0.0001548947	3 0 5	2 1 6	5 1 11
Error Prone Error Prone	EmptySynchronizedBlock AvoidUsingOctalValues	0 0	0 -1	0.000000e+00 -4.113534e-04	2 0 0	10 0 1	0 1	1 1	–1 –1	0.000000000 -0.0009293680	5 1 3	6 1 9	11 2 12
Error Prone Error Prone Code Style	ReturnFromFinallyBlock CloneMethodMustImplementCloneable ForLoopShouldBeWhileLoop	1 9 4	-1 -4 -5	9.872480e-03 1.316331e-02 -4.113534e-03	33 7 6	9 9 8	42 16 14	2 3 4	-2 -15 -3	0.0006195787 -0.0111524164 -0.0009293680	5 9 3	2 13 8	7 22 11
Multithreading Error Prone	DontCallThreadRun IdempotentOperations	1 0	-3 -1 0	-8.227067e-04 0.000000e+00	2 0	0 0	6 0 1	0 0 1	0 0	0.000000000 0.0000000000	0 0 1	0 0 2	0 0
Error Prone Error Prone Multithreading	ClassCastExceptionWithToArray  MoreThanOneLogger  DoubleCheckedLocking	1 0	0 0 0	4.113534e-04 4.113534e-04 0.000000e+00	1 0	0 0	1 0	1 1 0	-1 -1 -1	-0.0001548947 -0.0003097893 -0.0009293680	1 1 0	2 3 6	3 4 6
-	voidThrowingNewInstanceOfSameException EmptyStatementBlock AvoidMessageDigestField	0 0 0	-2 0 0	-1.645413e-03 0.000000e+00 0.000000e+00	0 0 0	2 0 0	2 0 0	2 1 2	-2 -1 -2	0.000000000 0.000000000 0.0001548947	1 1 2	1 1 1	2 2 3
Multithreading Error Prone	AvoidThreadGroup InvalidLogMessageFormat	1 2 0	0 -1 0	4.113534e-04 1.645413e-03	1 4	0 1	1 5 0	0 2	0 -2	0.000000000 0.0006195787	0 11	9	0 20 0
Error Prone Error Prone Error Prone	CloneMethodMustBePublic UselessOperationOnImmutable UnnecessaryConversionTemporary	1 0	-1 0	0.000000e+00 0.000000e+00 0.000000e+00	0 2 0	0 2 0	4 0	0 1 0	0 0 0	0.000000000 0.0001548947 0.0000000000	0 1 0	0	0 1 0
Performance Best Practices Best Practices	UseStringBufferLength ReplaceEnumerationWithIterator JUnit4SuitesShouldUseSuiteAnnotation	0 0 1	0 -1 0	0.000000e+00 -4.113534e-04 4.113534e-04	0 0 1	0 1 0	0 1 1	0 0 0	0 -1 0	0.000000000 -0.0001548947 0.0000000000	0 0 0	0 1 0	0 1 0
Error Prone	AvoidMultipleUnaryOperators InstantiationToGetClass	0	0	0.000000e+00 0.000000e+00	0	0	0	8	-8 -1	0.0000000000	1 1	1	2
Error Prone Error Prone	FinalizeShouldBeProtected	1	<b>–1</b>	-1.439737e-02	13	48	61	1	0	0.0001548947	1	0	1