Table 3

ID	project	class	# Orig. test methods	ProportionnalMutationScore	# New test methods	# Executed expressions Orig.	# Executed expressions Ampl.	Expr. Coverage Increase		# Killed mutants orig	# Killed mutants ampl	Increase killed		time(min)
						RQ1				**RQ2**				
		High *Mutation Score*												
1	javapoet	UtilTest	2	88.75%	0	80	80	0.0%	→	71	71	0.0%	→	16.90
2	javapoet	NameAllocatorTest	11	87.78%	0	90	90	0.0%	→	79	79	0.0%	→	4.76
3	mybatis	SqlBuilderTest	5	100.0%	0	193	193	0.0%	→	193	193	0.0%	→	1.52
4	mybatis	SelectBuilderTest	5	100.0%	0	193	193	0.0%	→	193	193	0.0%	→	1.52
5	traccar	PatternBuilderTest	1	100.0%	0	43	43	0.0%	→	43	43	0.0%	→	2.56
6	traccar	StringFinderTest	1	100.0%	0	14	14	0.0%	→	14	14	0.0%	→	0.38
7	stream-lib	TestLookup3Hash	2	95.67%	0	485	485	0.0%	→	464	464	0.0%	→	6.76
8	stream-lib	TestDoublyLinkedList	7	92.86%	1	112	113	0.89%	↗	104	105	0.96%	↗	3.03
9	mustache.java	HtmlEscaperTest	1	100.0%	0	15	15	0.0%	→	15	15	0.0%	→	4.66
10	mustache.java	ClasspathResolverTest	10	67.57%	0	74	74	0.0%	→	50	50	0.0%	→	4.18
11	twilio-java	UrlUtilsTest	18	100.0%	0	135	135	0.0%	→	135	135	0.0%	→	20.90
12	twilio-java	EnqueueTest	2	100.0%	7	40	44	10.0%	↗	40	44	10.0%	↗	2.31
13	jsoup	ParserSettingsTest	1	100.0%	0	14	14	0.0%	→	14	14	0.0%	→	4.69
14	jsoup	CharacterReaderTest	19	79.84%	71	387	391	1.03%	↗	309	336	8.74%	↗	57.06
15	jsoup	AttributesTest	5	52.58%	9	601	604	0.5%	↗	316	322	1.9%	↗	6.21
16	protostuff	LowCopyProtostuffOutputTest	1	75.8%	0	471	471	0.0%	→	357	357	0.0%	→	1.69
17	protostuff	LinkBufferTest	3	75.86%	12	87	136	56.32%	↗	66	90	36.36%	↗	3.24
18	protostuff	CodedInputTest	1	60.0%	29	180	400	122.22%	↗	108	166	53.7%	↗	0.88
19	logback	SecureRandomFactoryBeanTest	4	100.0%	0	28	28	0.0%	→	28	28	0.0%	→	0.03
20	logback	SyslogAppenderBaseTest	1	99.31%	1	144	149	3.47%	↗	143	148	3.5%	↗	7.88
21	retrofit	ResponseTest	14	100.0%	0	88	88	0.0%	→	88	88	0.0%	→	3.81
22	retrofit	ServiceMethodTest	1	100.0%	0	10	10	0.0%	→	10	10	0.0%	→	7.80
23	retrofit	ExecutorCallAdapterFactoryTest	7	62.3%	0	191	191	0.0%	→	119	119	0.0%	→	0.09
24	retrofit	CallTest	35	69.78%	3	920	922	0.22%	↗	642	644	0.31%	↗	52.84
		Low *PMS*												
25	javapoet	FieldSpecTest	2	32.13%	12	694	712	2.59%	↗	223	316	41.7%	↗	4.44
26	javapoet	ParameterSpecTest	2	32.77%	11	653	663	1.53%	↗	214	293	36.92%	↗	3.66
27	mybatis	WrongNamespacesTest	2	8.97%	6	870	870	0.0%	→	78	249	219.23%	↗	29.70
28	mybatis	WrongMapperTest	1	8.91%	3	1089	1089	0.0%	→	97	325	235.05%	↗	7.13
29	traccar	GeolocationProviderTest	2	0.0%	0	4	4	0.0%	→	0	0	0.0%	→	0.02
30	traccar	At2000ProtocolDecoderTest	1	0.0%	0	4	4	0.0%	→	0	0	0.0%	→	0.94
31	stream-lib	TestICardinality	2	7.66%	0	248	248	0.0%	→	19	19	0.0%	→	2.13
32	stream-lib	TestMurmurHash	2	25.74%	40	202	292	44.55%	↗	52	275	428.85%	↗	2.18
33	mustache.java	ConcurrencyTest	2	28.89%	2	727	728	0.14%	↗	210	342	62.86%	↗	315.56
34	mustache.java	ExplicitMapNullTest	1	37.12%	0	563	566	0.53%	↗	209	210	0.48%	↗	3.03
35	twilio-java	AllTimeTest	3	42.23%	0	386	386	0.0%	→	163	163	0.0%	→	0.02
36	twilio-java	DailyTest	3	42.23%	0	386	386	0.0%	→	163	163	0.0%	→	0.02
37	jsoup	AttributeTest	2	40.73%	33	437	489	11.9%	↗	178	225	26.4%	↗	10.76
38	protostuff	CodedDataInputTest	1	1.11%	0	451	451	0.0%	→	5	5	0.0%	→	3.58
39	logback	FileAppenderResilience_AS_ROOT_Test	1	4.6%	0	87	87	0.0%	→	4	4	0.0%	→	0.65
40	logback	Basic	1	10.53%	0	57	57	0.0%	→	6	6	0.0%	→	0.89