

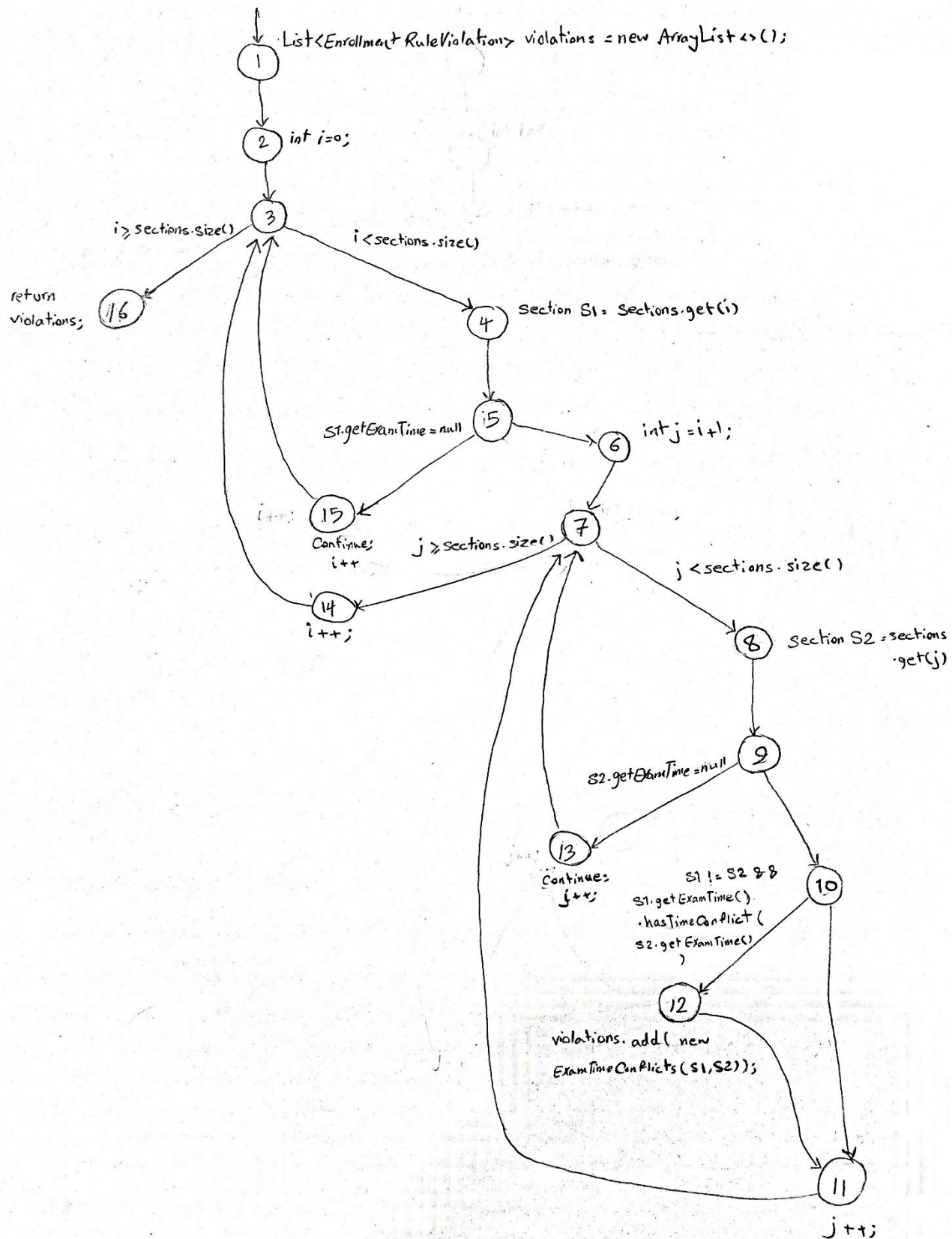
آزمون نرم افزار

پروژه شماره ۳

مرتضی نوری (۸۱۰۱۹۸۴۸۱)

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بخش اول



→ Node Coverage:

TR = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16}

Test Paths = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 11, 7, 14, 3, 16], [1, 2, 3, 4, 5, 15, 3, 16],

[1, 2, 3, 4, 5, 6, 7, 8, 9, 13, 7, 14, 3, 16]

→ Edge Coverage:

TR = {(1, 2), (2, 3), (3, 4), (3, 16), (4, 5), (5, 6), (5, 15), (6, 7), (7, 8), (7, 14), (8, 9), (9, 10),

(9, 13), (10, 11), (10, 12), (11, 7), (12, 11), (13, 7), (14, 3), (15, 3)}

Test Paths = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 11, 7, 14, 3, 16], [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 7, 14, 3, 16],

[1, 2, 3, 4, 5, 15, 3, 16], [1, 2, 3, 4, 5, 6, 7, 8, 9, 13, 7, 14, 3, 16]

↳ Covers { (5, 15), (15, 3) }

↳ Covers { (9, 13), (13, 7) }

↳ Covers { (10, 11) }

بخش دوم

Node	Definition	Use
1	{sections, violation}	
2	{i}	
3		{ sections, i}
4	{s1}	{ sections, i}
5		{s1}
6	{j}	{i}
7		{ sections, j}
8	{s2}	{ sections, j}
9		{s2}
10		{s1, s2}
11		{j}
12		{violations, s1, s2}
13		{j}
14		{i}
15		{i}
16		{violations}

Variable	DU Pairs	DU Paths
sections	(1,3)	[1,2,3]
	(1,4)	[1,2,3,4]
	(1,7)	[1,2,3,4,5,6,7]
	(1,8)	[1,2,3,4,5,6,7,8]
	(1,12)	[1,2,3,4,5,6,7,8,9,10,12]
	(1,16)	[1,2,3,16]
violations	(1,12)	[1,2,3,4,5,6,7,8,9,10,12]
	(1,16)	[1,2,3,16]
i	(2,3)	[2,3]
	(2,4)	[2,3,4]
	(2,6)	[2,3,4,5,6]
	(2,13)	[2,3,4,5,6,7,8,9,13]
	(2,14)	[2,3,4,5,6,7,14]
	(2,15)	[2,3,4,5,15]
j	(6,7)	[6,7]
	(6,8)	[6,7,8]
	(6,11)	[6,7,8,9,10,11]
s1	(4,10)	[4,5,6,7,8,9,10]
	(4,12)	[4,5,6,7,8,9,10,12]
s2	(8,9)	[8,9]
	(8,10)	[8,9,10]
	(8,12)	[8,9,10,12]

→ Prime Path Coverage:

TR = [1, 2, 3, 16]!

[1, 2, 3, 4, 5, 15]!

[1, 2, 3, 4, 5, 6, 7, 14]!

[1, 2, 3, 4, 5, 6, 7, 8, 9, 13]!

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]!

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 11]!

[3, 4, 5, 15, 3]*

[3, 4, 5, 6, 7, 14, 3]*

[4, 5, 15, 3, 4]*

[4, 5, 6, 7, 14, 3, 4]*

[4, 5, 15, 3, 16]!

[4, 5, 6, 7, 14, 3, 16]!

[5, 15, 3, 4, 5]*

[5, 6, 7, 14, 3, 4, 5]*

[5, 15, 3, 16]!

[5, 6, 7, 14, 3, 16]!

[6, 7, 14, 3, 4, 5, 6]*

[6, 7, 14, 3, 4, 5, 15]!

[7, 14, 3, 4, 5, 6, 7]*

[7, 8, 9, 13, 7]*

[7, 8, 9, 10, 11, 7]*

[7, 8, 9, 10, 12, 11, 7]*

[8, 9, 13, 7, 8]*

[8, 9, 10, 11, 7, 8]*

[8, 9, 10, 12, 11, 7, 8]*

[8, 9, 13, 7, 14, 3, 16]!

[8, 9, 13, 7, 14, 3, 4, 5, 6]!

[8, 9, 13, 7, 14, 3, 4, 5, 15]!

[8, 9, 10, 11, 7, 14, 3, 16]!

[8, 9, 10, 11, 7, 14, 3, 4, 5, 6]!

[8, 9, 10, 11, 7, 14, 3, 4, 5, 15]!

[9, 13, 7, 8, 9]*

[9, 10, 11, 7, 8, 9]*

[9, 10, 12, 11, 7, 8, 9]*

[10, 11, 7, 8, 9, 10]*

[10, 12, 11, 7, 8, 9, 10]*

[10, 11, 7, 8, 9, 13]!

[10, 12, 11, 7, 8, 9, 13]!

[11, 7, 8, 9, 10, 11]*

[11, 7, 8, 9, 10, 12, 11]*

[12, 11, 7, 8, 9, 10, 12]*

[12, 11, 7, 8, 9, 13]!

[13, 7, 8, 9, 13]*

[13, 7, 8, 9, 10, 11]!

[13, 7, 8, 9, 10, 12, 11]!

[15, 3, 4, 5, 15]*

[15, 3, 4, 5, 6, 7, 14]!

[15, 3, 4, 5, 6, 7, 8, 9, 13]!

[15, 3, 4, 5, 6, 7, 8, 9, 10, 11]!

[15, 3, 4, 5, 6, 7, 8, 9, 10, 12, 11]!

[8, 9, 10, 12, 11, 7, 14, 3, 16]!

[8, 9, 10, 12, 11, 7, 14, 3, 4, 5, 6]!

[8, 9, 10, 12, 11, 7, 14, 3, 4, 5, 15]!

[1,2,3,16]
[1,2,3,4,5,6,7,8,9,10,12,11,7,14,3,16]
[1,2,3,4,5,6,7,8,9,10,11,7,14,3,16]
[1,2,3,4,5,15,3,16]
[1,2,3,4,5,6,7,8,9,13,7,14,3,16]
[1,2,3,4,5,15,3,4,5,6,7,8,9,13,7,14,3,16]
[1,2,3,4,5,6,7,8,9,10,11,7,14,3,16]
[1,2,3,4,5,15,3,4,5,6,7,8,9,10,11,7,8,9,13,7,14,3,16]
[1,2,3,4,5,6,7,8,9,10,11,7,8,9,13,7,14,3,4,5,15,3,16]

بخش سوم

آدرس مخزن شخصی : github.com/SM2A/Software_Testing_CA3

شناسه کامیت آخرین تغییرات : 22ecf23ea69dc80af6cd22d5579d695b40112b91