REPORT 代码审计报告

> *检测时间：2023-07-14 11:27:32*

Token Function DataFrame

name	line	val_type	details
func1	10	void	[['arg1', 10, 'int'], ['arg2', 11, 'char']]
func2	30	int	[['arg1', 30, 'int'], ['arg2', 31, 'char'], ['arg3', 32, 'double']]
func3	70	float	[['arg1', 70, 'char'], ['arg2', 71, 'char']]
func4	90	double	[['arg1', 90, 'float'], ['arg2', 91, 'double']]
func5	110	int	[['arg1', 110, 'char'], ['arg2', 111, 'int'], ['arg3', 112, 'int']]
func6	130	void	[['arg1', 130, 'double'], ['arg2', 131, 'char'], ['arg3', 132, 'char']]
func7	150	float	[['arg1', 150, 'int'], ['arg2', 151, 'char']]
func8	170	int	[['arg1', 170, 'int'], ['arg2', 171, 'int'], ['arg3', 172, 'int'], ['arg4', 173, 'char']]
func9	190	void	[['arg1', 190, 'int'], ['arg2', 191, 'double']]
func10	210	float	[['arg1', 210, 'char'], ['arg2', 211, 'double'], ['arg3', 212, 'int']]

Token Value DataFrame

name	line	val_type	details
var1	5	int	[['val1', 5, 'int'], ['val2', 6, 'int']]
var2	20	char	[['val3', 20, 'char'], ['val4', 21, 'char']]
var3	50	double	[['val5', 50, 'double'], ['val6', 51, 'double']]
var4	70	float	[['val7', 70, 'float'], ['val8', 71, 'float']]
var5	90	int	[['val9', 90, 'int'], ['val10', 91, 'int']]
var6	110	char	[['val11', 110, 'char'], ['val12', 111, 'char']]
var7	130	double	[['val13', 130, 'double'], ['val14', 131, 'double']]
var8	150	float	[['val15', 150, 'float'], ['val16', 151, 'float']]

name	line	val_type	details
var9	170	int	[['val17', 170, 'int'], ['val18', 171, 'int']]
var10	190	char	[['val19', 190, 'char'], ['val20', 191, 'char']]

Danger DataFrame

filepath	line	function_name	risk	solve
path/to/file1.c	15	func1	Buffer Overflow Risk	Consider using safer functions such as strncpy
path/to/file2.c	25	func2	Null Pointer Risk	Check pointer before use
path/to/file3.c	75	func3	Uninitialized Variable Risk	Initialize variables before use
path/to/file4.c	35	func4	Type Mismatch Risk	Ensure proper type casting
path/to/file5.c	45	func5	Memory Leak Risk	Free dynamically allocated memory
path/to/file6.c	55	func6	Division by Zero Risk	Check denominator before division
path/to/file7.c	65	func7	Array Index Out of Bounds Risk	Validate array index
path/to/file8.c	85	func8	Infinite Loop Risk	Add exit condition to the loop
path/to/file9.c	95	func9	Unused Variable Risk	Remove unused variables
path/to/file10.c	105	func10	File IO Error Risk	Handle file opening errors

Invalid Function DataFrame

filepath	line	name
path/to/file1.c	16	func4
path/to/file2.c	26	func5
path/to/file3.c	36	func6
path/to/file4.c	46	func7
path/to/file5.c	56	func8
path/to/file6.c	66	func9

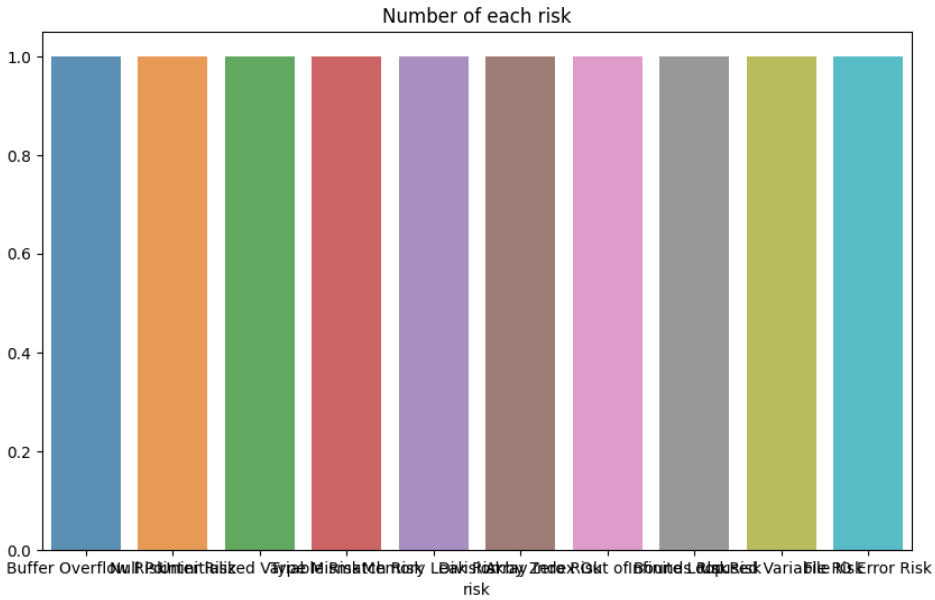
filepath	line	name
path/to/file7.c	76	func10
path/to/file8.c	86	func11
path/to/file9.c	96	func12
path/to/file10.c	106	func13

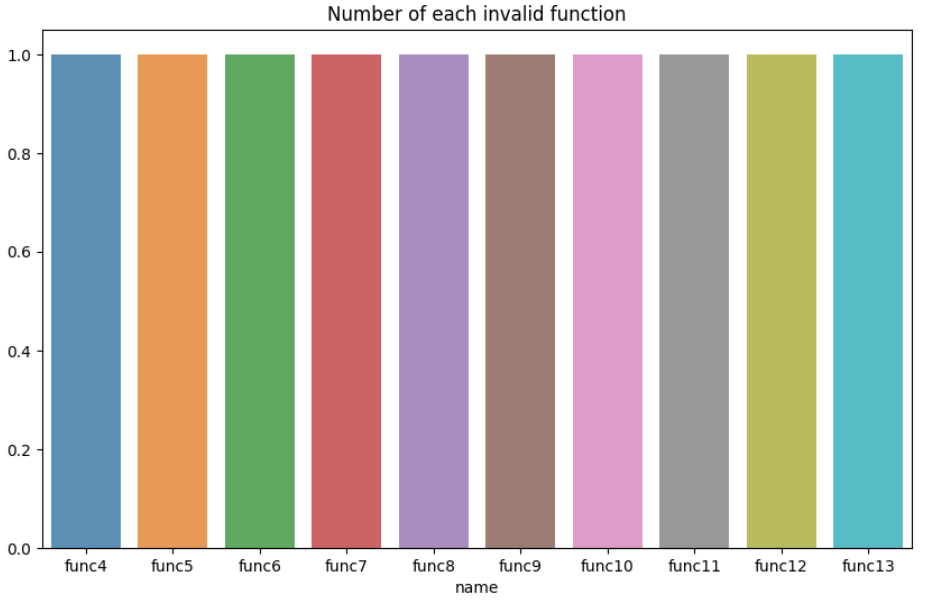
Invalid Value DataFrame

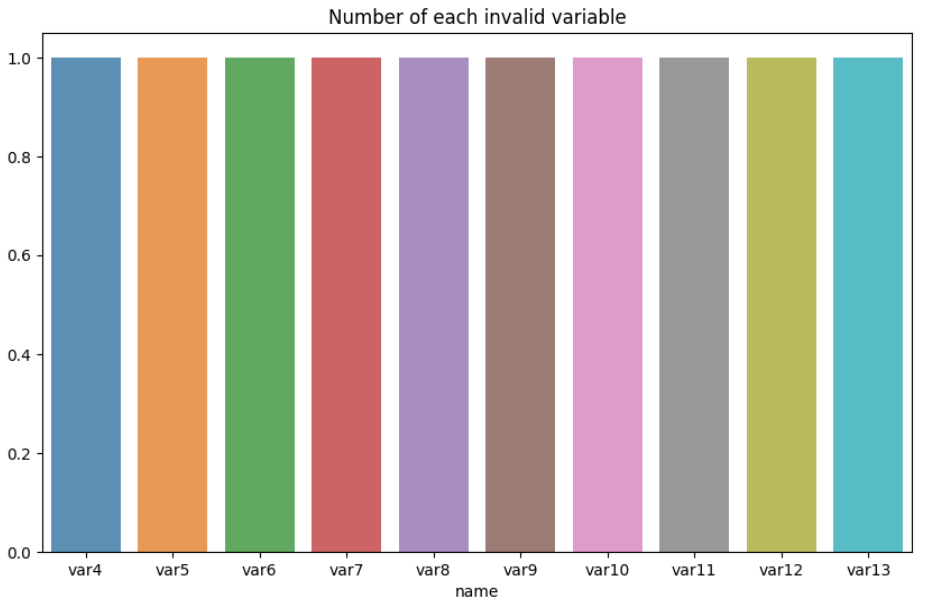
filepath	line	name
path/to/file1.c	7	var4
path/to/file2.c	22	var5
path/to/file3.c	37	var6
path/to/file4.c	52	var7
path/to/file5.c	67	var8
path/to/file6.c	82	var9
path/to/file7.c	97	var10
path/to/file8.c	112	var11
path/to/file9.c	127	var12
path/to/file10.c	142	var13

Plots

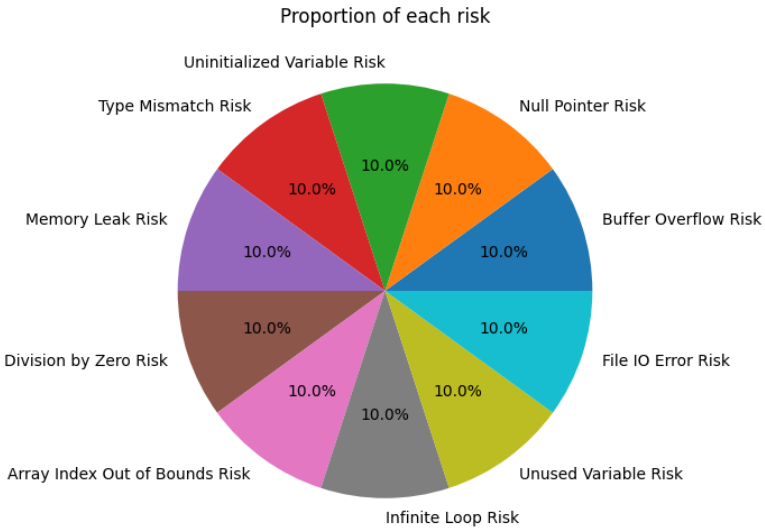
Bar Plots

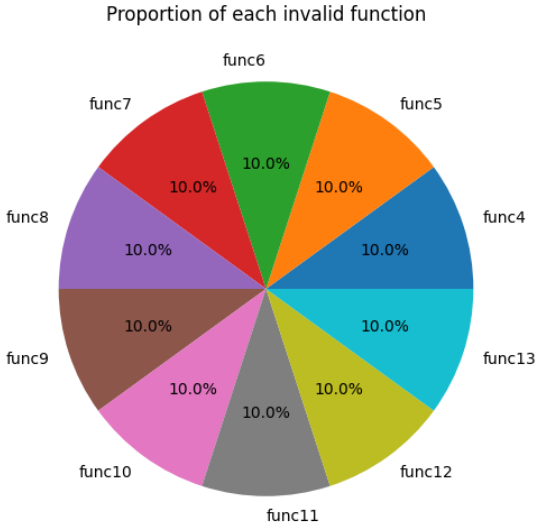

Number of each risk
1.0
0.8
0.6
0.4
0.2
0.0
Buffer Overflow Risk
Variable Risk
Error Risk
risk

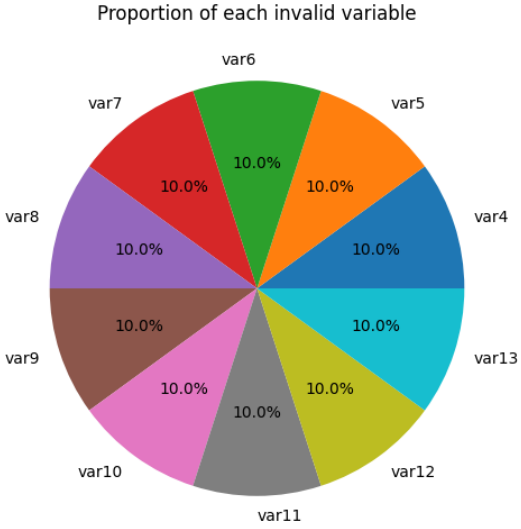

Number of each invalid function
1.0
0.8
0.6
0.4
0.2
0.0
func4
func5
func6
func7
func8
func9
func10
func11
func12
func13
name


Number of each invalid variable
1.0
0.8
0.6
0.4
0.2
0.0
var4
var5
var6
var7
var8
var9
var10
var11
var12
var13
name

Pie Charts


Proportion of each risk
Uninitialized Variable Risk
Type Mismatch Risk
Null Pointer Risk
Memory Leak Risk
Buffer Overflow Risk
Division by Zero Risk
File IO Error Risk
Array Index Out of Bounds Risk
Unused Variable Risk
Infinite Loop Risk
10.0%


Proportion of each invalid function
func6
func7
func5
func8
func4
func9
func13
func10
func12
func11
10.0%


Proportion of each invalid variable
var6
var7
var5
var8
var4
var9
var13
var10
var12
var11
10.0%