

The logo graphic consists of three concentric blue arcs of increasing radius, curving from the top right towards the bottom right, positioned behind the word 'sonar'.

# sonar

**udp  
not provided**

*py:Sonar way  
2023-01-17*

# 目录

1. udp	Page 1
1.1. 概述	1
1.2. 问题分析	2
1.3. 问题详情	3
1.4. 质量配置	4

# 1. udp

报告提供了项目指标的概要，显示了与项目质量相关的最重要的指标。如果需要获取更详细的信息，请[登录网站](#)进一步查询。

报告的项目为udp，生成时间为2023-01-17，使用的质量配置为 py:Sonar way，共计 134条规则。

## 1.1. 概述

### 编码问题

Bug	可靠性修复工作
0	0min
漏洞	安全修复工作
0	0min
坏味道	技术债务
11	25min
11	开启问题
问题	重开问题
	确认问题
	误判问题
	不修复的问题
	已解决的问题
	已删除的问题
	阻断
	严重
	主要
	次要
	提示
	11
	0

### 静态分析

项目规模

	udp	Sonar Report
--	-----	--------------

80	行数	105
代码行数	方法	4
	类	1
	文件	1
	目录	N/A
	重复行(%)	0.0

复杂度

6	文件	6.0
复杂度		

注释(%)

23.1	注释行数	24
注释(%)		

## 1.2. 问题分析

违反最多的规则TOP10	
Local variable and function parameter names should comply with a naming convention	10
Class names should comply with a naming convention	1

违规最多的文件TOP5	
udp_train&test.py	11

复杂度最高的文件TOP5	
udp_train&test.py	6

重复行最多的文件TOP5	
No duplications	

### 1.3. 问题详情

规则	Local variable and function parameter names should comply with a naming convention	
规则描述	<p>Shared naming conventions allow teams to collaborate effectively. This rule raises an issue when a local variable or function parameter name does not match the provided regular expression.</p> <p>Exceptions</p> <p>Loop counters are ignored by this rule.</p> <pre>for i in range(limit): # Compliant     print(i)</pre>	
文件名称		违规行
udp:udp_train&test.py		37, 37, 40, 40, 40, 40, 45, 45, 58, 59

规则	Class names should comply with a naming convention	
规则描述	<p>Shared coding conventions allow teams to collaborate effectively. This rule allows to check that all class names match a provided regular expression.</p> <p>The default regular expression is based on PEP-8 standard. It allows "CapWords" convention and "snake_case" in lowercase. The "snake_case" convention is accepted by PEP-8 when the class is primarily used as a callable (ex: decorator, context manager, etc...). However the "CapWords" convention is recommended in every case.</p> <p>Noncompliant Code Example</p> <p>With default provided regular expression <code>^_?([A-Z_][a-zA-Z0-9]*)*[a-z_][a-z0-9_]*\$</code>:</p> <pre>class myClass: # Noncompliant     ...  class my_CONTEXT_manager: # Noncompliant     def __enter__(self):         pass     def __exit__(self, type, value, traceback):         pass</pre> <p>Compliant Solution</p> <pre>class MyClass:     ...  class my_context_manager:     def __enter__(self):         pass     def __exit__(self, type, value, traceback):         pass</pre>	

文件名称	违规行
udp:udp_train&test.py	15

## 1.4. 质量配置

质量配置	py:Sonar way Bug:41 漏洞:13 坏味道:61	
规则	类型	违规级别
Recursion should not be infinite	Bug	阻断
Instance and class methods should have at least one positional parameter	Bug	阻断
Boolean expressions of exceptions should not be used in "except" statements	Bug	阻断
Special methods should have an expected number of parameters	Bug	阻断
Property getter, setter and deleter methods should have the expected number of parameters	Bug	阻断
Variables, classes and functions should be defined before being used	Bug	阻断
Operators should be used on compatible types	Bug	阻断
"__init__" should not return a value	Bug	阻断
Only strings should be listed in "__all__"	Bug	阻断
Silly equality checks should not be made	Bug	阻断
Identity operators should not be used with dissimilar types	Bug	阻断
String formatting should not lead to runtime errors	Bug	阻断
Caught Exceptions must derive from BaseException	Bug	阻断
The "open" builtin function should be called with a valid mode	Bug	阻断
Function arguments should be passed only once	Bug	阻断
"yield" and "return" should not be used outside functions	Bug	阻断
Calls should not be made to non-callable values	Bug	阻断
Raised Exceptions must derive from BaseException	Bug	阻断
Item operations should be done on objects supporting them	Bug	阻断
Iterable unpacking, "for-in" loops and "yield from" should use an Iterable object	Bug	阻断
Only defined names should be listed in "__all__"	Bug	阻断
The number and name of arguments passed to a function should match its parameters	Bug	阻断
Break, continue and return statements should not occur in "finally" blocks	Bug	严重
Exceptions' "__cause__" should be either an Exception or None	Bug	严重

"break" and "continue" should not be used outside a loop	Bug	严重
Variables should not be self-assigned	Bug	主要
Non-empty statements should change control flow or have at least one side-effect	Bug	主要
Increment and decrement operators should not be used	Bug	主要
"= +" should not be used instead of "+ ="	Bug	主要
Loops with at most one iteration should be refactored	Bug	主要
Return values from functions without side effects should not be ignored	Bug	主要
New objects should not be created only to check their identity	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
All code should be reachable	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
Collection content should not be replaced unconditionally	Bug	主要
Exceptions should not be created without being raised	Bug	主要
All "except" blocks should be able to catch exceptions	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要
Function parameters initial values should not be ignored	Bug	次要
A secure password should be used when connecting to a database	漏洞	阻断
XML parsers should not be vulnerable to XXE attacks	漏洞	阻断
Cipher Block Chaining IV's should be unpredictable	漏洞	严重
Insecure temporary file creation methods should not be used	漏洞	严重
Hashes should include an unpredictable salt	漏洞	严重
JWT should be signed and verified	漏洞	严重
Encryption algorithms should be used with secure mode and padding scheme	漏洞	严重
Cipher algorithms should be robust	漏洞	严重
Weak SSL/TLS protocols should not be used	漏洞	严重
Cryptographic key generation should be based on strong parameters	漏洞	严重
Server certificates should be verified during SSL/TLS connections	漏洞	严重
LDAP connections should be authenticated	漏洞	严重

Server hostnames should be verified during SSL/TLS connections	漏洞	严重
Backticks should not be used	坏味道	阻断
The "exec" statement should not be used	坏味道	阻断
Functions returns should not be invariant	坏味道	阻断
Methods and field names should not differ only by capitalization	坏味道	阻断
Unread "private" attributes should be removed	坏味道	严重
Method overrides should not change contracts	坏味道	严重
Bare "raise" statements should only be used in "except" blocks	坏味道	严重
Cognitive Complexity of functions should not be too high	坏味道	严重
Some special methods should return "NotImplemented" instead of raising "NotImplementedError"	坏味道	严重
Constants should not be used as conditions	坏味道	严重
Wildcard imports should not be used	坏味道	严重
Function parameters' default values should not be modified or assigned	坏味道	严重
String literals should not be duplicated	坏味道	严重
"self" should be the first argument to instance methods	坏味道	严重
Comparison to None should not be constant	坏味道	严重
Arguments given to functions should be of an expected type	坏味道	严重
The first argument to class methods should follow the naming convention	坏味道	严重
Functions and methods should not be empty	坏味道	严重
Custom Exception classes should inherit from "Exception" or one of its subclasses	坏味道	严重
Bare "raise" statements should not be used in "finally" blocks	坏味道	严重
"SystemExit" should be re-raised	坏味道	严重
Track uses of "FIXME" tags	坏味道	主要
"Exception" and "BaseException" should not be raised	坏味道	主要
Functions, methods and lambdas should not have too many parameters	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
Type checks shouldn't be confusing	坏味道	主要
Unused class-private methods should be removed	坏味道	主要
Function names should comply with a naming convention	坏味道	主要
A field should not duplicate the name of its containing class	坏味道	主要
Implicit string and byte concatenations should not be confusing	坏味道	主要



Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Redundant pairs of parentheses should be removed	坏味道	主要
Identity comparisons should not be used with cached typed	坏味道	主要
The "print" statement should not be used	坏味道	主要
Functions and lambdas should not reference variables defined in enclosing loops	坏味道	主要
Unused scope-limited definitions should be removed	坏味道	主要
"<>" should not be used to test inequality	坏味道	主要
Conditional expressions should not be nested	坏味道	主要
Unused assignments should be removed	坏味道	主要
Values assigned to variables should match their type annotations	坏味道	主要
Collapsible "if" statements should be merged	坏味道	主要
Loops without "break" should not have "else" clauses	坏味道	主要
Special method "__exit__" should not re-raise the provided exception	坏味道	主要
String formatting should be used correctly	坏味道	主要
Expressions creating dictionaries should not have duplicate keys	坏味道	主要
Expressions creating sets should not have duplicate values	坏味道	主要
Functions and methods should not have identical implementations	坏味道	主要
Sections of code should not be commented out	坏味道	主要
Unused private nested classes should be removed	坏味道	主要
Function return types should be consistent with their type hint	坏味道	主要
Builtins should not be shadowed by local variables	坏味道	主要
Field names should comply with a naming convention	坏味道	次要
Local variable and function parameter names should comply with a naming convention	坏味道	次要
A subclass should not be in the same "except" statement as a parent class	坏味道	次要
Walrus operator should not make code confusing	坏味道	次要
Class names should comply with a naming convention	坏味道	次要
Method names should comply with a naming convention	坏味道	次要
"except" clauses should do more than raise the same issue	坏味道	次要
Unused local variables should be removed	坏味道	次要
"pass" should not be used needlessly	坏味道	次要
Jump statements should not be redundant	坏味道	次要