C static code analysis: "switch case" clauses should not have too many lines of code

1-2 minutes

The switch statement should be used only to clearly define some new branches in the control flow. As soon as a case clause contains too many statements this highly decreases the readability of the overall control flow statement. In such case, the content of case clause should be extracted in a dedicated function.

Noncompliant Code Example

```
With the default threshold of 5: switch (myVariable) { case 0: // 6 lines till next case methodCall1("");
```

```
methodCall2("");
methodCall3("");
methodCall4("");
methodCall5("");
break;
case 1:
// ...
}
```

Compliant Solution

```
switch (myVariable) {
 case 0: // Compliant: 2 lines
  doSomething();
  break;
 case 1: // Compliant: 5 lines till next case. Curly
braces after a case are not counted if they
contain the entire case body
 {
   methodCall1("");
   methodCall2("");
   methodCall3("");
   methodCall4("");
   break;
 }
```

```
case 2:
// ...
}
// ...
void doSomething(){
  methodCall1("");
  methodCall2("");
  methodCall3("");
  methodCall4("");
  methodCall5("");
```