C++ Coding Standard for the Black Box Optimization Competition

Topic	Coding Standard

Variables	Variables should always be lowercase and, if necessary, use underscores. They should also be as descriptive as possible.
	
	Examples
	
	```cpp\ndouble kse_eval\nstring result\nint counter\n```
	
	Code without standard
	
	```cpp\ndouble kseEval\nstring Result\nint iCounter\n```

Functions	Functions, like variables, should always be lowercase and, if necessary, use underscores. They should also be as descriptive as possible. They must, as well, have a header comment, and have comments on the most important parts. The first brace should be on the same line as the function declaration. Critical code inside functions **must** be commented.
	
	Examples
	
	```cpp\n/* selection\n *\n *This function takes as a parameter a *vector of individuals, and based on their *respective fitness, proceeds to select the *best ones. This function returns the best individuals as a vector of iterators.\n *\n *parameters: vector<individual>\n *return: vector<vector<individual> :: iterator>\n */\n\nvector<vector<individual> :: iterator> selection(vector<individual> population){\n [...]\n}\n```
	
	Code without standard
	
	```cpp\nvector<vector<individual> :: iterator> selection(vector<individual> population)\n{\n [...]\n}\n```

Operators	When dealing with operators, there must always be a blank space between its arguments and itself.
	Examples
| | ```
int result = 5 + 3
double var_3 = var_1 * var_2
``` |
| | **Code without standard** |
| | ```
int result=5/3
int modulo=var_1%var_2
``` |
| **Loops** | When using a for function, if applicable, use continues instead of an if else function. |
| | **Examples** |
| | ```
do{
   if (var){
      […]
      continue;
   }
   [...];
}
while(true);
``` |
| | **Code without standard** |
| | ```
do{
   if (var){
      […]
      continue;
   }
   else{
      [...];
   }

}
while(true);
``` |