

```
1. #include <stdio.h>
2. #include <stdlib.h>
3. #include <CUnit/Basic.h>
4.
5. int init_suite(void) {
6.     return 0;
7. }
8.
9. int clean_suite(void) {
10.     return 0;
11. }
12.
13. double metodoCorrelacao(int tempoCorrelacao);
14.
15. void testMetodoCorrelacao() {
16.     int tempoCorrelacao = 21;
17.     double resultadoCorrelacao =
        metodoCorrelacao(tempoCorrelacao);
18.
19.     CU_ASSERT_DOUBLE_EQUAL(0.748820, resultadoCorrelacao, 0.001
        );
20. }
21.
22. int main() {
23.     CU_pSuite pSuite = NULL;
```

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24.
25.     /* Initialize the CUnit test registry */
26.     if (CUE_SUCCESS != CU_initialize_registry())
27.         return CU_get_error();
28.
29.     /* Add a suite to the registry */
30.     pSuite = CU_add_suite("correlacaoLinearTeste", init_suite,
        clean_suite);
31.     if (NULL == pSuite) {
32.         CU_cleanup_registry();
33.         return CU_get_error();
34.     }
35.
36.     /* Add the tests to the suite */
37.     if ((NULL == CU_add_test(pSuite, "testMetodoCorrelacao",
        testMetodoCorrelacao))) {
38.         CU_cleanup_registry();
39.         return CU_get_error();
40.     }
41.
42.     /* Run all tests using the CUnit Basic interface */
43.     CU_basic_set_mode(CU_BRM_VERBOSE);
44.     CU_basic_run_tests();
45.     CU_cleanup_registry();
46.     return CU_get_error();
```

47. }

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