```
[ 16%] Building CXX object CMakeFiles/vector_angle.dir/VectorAngle.cpp.o
/usr/bin/c++   --coverage -std=gnu++17 -Wall -Wextra -pedantic -MD -MT
CMakeFiles/vector_angle.dir/VectorAngle.cpp.o -MF
CMakeFiles/vector_angle.dir/VectorAngle.cpp.o.d -o
CMakeFiles/vector_angle.dir/VectorAngle.cpp.o -c
/home/user/Desktop/code/vector-angle-jar-jar-binks/VectorAngle.cpp
[ 33%] Building CXX object CMakeFiles/vector_angle.dir/dotProduct.cpp.o
/usr/bin/c++   --coverage -std=gnu++17 -Wall -Wextra -pedantic -MD -MT
CMakeFiles/vector_angle.dir/dotProduct.cpp.o -MF
CMakeFiles/vector_angle.dir/dotProduct.cpp.o.d -o
CMakeFiles/vector_angle.dir/dotProduct.cpp.o -c
/home/user/Desktop/code/vector-angle-jar-jar-binks/dotProduct.cpp
[ 50%] Linking CXX executable vector_angle
/usr/bin/cmake -E cmake_link_script CMakeFiles/vector_angle.dir/link.txt --
verbose=1
/usr/bin/c++ --coverage CMakeFiles/vector_angle.dir/VectorAngle.cpp.o
CMakeFiles/vector_angle.dir/dotProduct.cpp.o -o vector_angle
make[2]: Leaving directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
[ 50%] Built target vector_angle
make  -f CMakeFiles/dotProductTest.dir/build.make
CMakeFiles/dotProductTest.dir/depend
make[2]: Entering directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
cd /home/user/Desktop/code/vector-angle-jar-jar-binks/build &&
/usr/bin/cmake -E cmake_depends "Unix Makefiles"
/home/user/Desktop/code/vector-angle-jar-jar-binks
/home/user/Desktop/code/vector-angle-jar-jar-binks
/home/user/Desktop/code/vector-angle-jar-jar-binks/build
/home/user/Desktop/code/vector-angle-jar-jar-binks/build
/home/user/Desktop/code/vector-angle-jar-jar-
binks/build/CMakeFiles/dotProductTest.dir/DependInfo.cmake "--color="
make[2]: Leaving directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
make  -f CMakeFiles/dotProductTest.dir/build.make
CMakeFiles/dotProductTest.dir/build
make[2]: Entering directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
[ 66%] Building CXX object
CMakeFiles/dotProductTest.dir/dotProductTest.cpp.o
/usr/bin/c++   --coverage -std=gnu++17 -Wall -Wextra -pedantic -MD -MT
CMakeFiles/dotProductTest.dir/dotProductTest.cpp.o -MF
CMakeFiles/dotProductTest.dir/dotProductTest.cpp.o.d -o
```

```
CMakeFiles/dotProductTest.dir/dotProductTest.cpp.o -c
/home/user/Desktop/code/vector-angle-jar-jar-binks/dotProductTest.cpp
[ 83%] Building CXX object CMakeFiles/dotProductTest.dir/dotProduct.cpp.o
/usr/bin/c++   --coverage -std=gnu++17 -Wall -Wextra -pedantic -MD -MT
CMakeFiles/dotProductTest.dir/dotProduct.cpp.o -MF
CMakeFiles/dotProductTest.dir/dotProduct.cpp.o.d -o
CMakeFiles/dotProductTest.dir/dotProduct.cpp.o -c
/home/user/Desktop/code/vector-angle-jar-jar-binks/dotProduct.cpp
[100%] Linking CXX executable dotProductTest
/usr/bin/cmake -E cmake_link_script CMakeFiles/dotProductTest.dir/link.txt -
-verbose=1
/usr/bin/c++ --coverage CMakeFiles/dotProductTest.dir/dotProductTest.cpp.o
CMakeFiles/dotProductTest.dir/dotProduct.cpp.o -o dotProductTest
make[2]: Leaving directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
[100%] Built target dotProductTest
make[1]: Leaving directory '/home/user/Desktop/code/vector-angle-jar-jar-
binks/build'
/usr/bin/cmake -E cmake_progress_start /home/user/Desktop/code/vector-angle-
jar-jar-binks/build/CMakeFiles 0
```

```
File '/home/user/Desktop/code/vector-angle-jar-jar-binks/dotProduct.cpp'
Lines executed:89.47% of 19
Creating 'dotProduct.cpp.gcov'
```

47.37% of code coverage compared to my 15% estimated

```
{
        std::vector<double> v1 = {1, 2, 3};
        std::vector<double> v2 = {0, 0, 0};

        assert(dotProduct(v1, v2) == 0.0);
}
```

36.84 of code coverage compared to my 15% estimated

```
{
    std::vector<double> v1 = {0, 0, 0};
    std::vector<double> v2 = {4, 5, 6};

    assert(dotProduct(v1, v2) == 0.0);
}
```

21.05% of code coverage compared to my 11% estimated

```
{
    std::vector<double> v1 = {1, 2, 3};
    std::vector<double> v2 = {};

    assert(dotProduct(v1, v2) == 0.0);
}
```

15.79% of code coverage compared to my 15% estimated

```
{
    std::vector<double> v1 = {};
    std::vector<double> v2 = {1, 2, 3};

    assert(dotProduct(v1, v2) == 0.0);
}
```

26.32% of code coverage compared to my 11% estimated

```
{
    std::vector<double> v1 = {1,2,3,4};
    std::vector<double> v2 ={4,5,6};

    assert(dotProduct(v1, v2) == 0.0);
}
```

73.68% of code coverage compared to my 23% estimated

```
{
    std::vector<double> v1 = {1, 2, 3};
    std::vector<double> v2 = {4, 5, 6};

    assert(dotProduct(v1, v2) == 32.0);
}
```