CPP-Project-Structure_roll

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1 C++ Project Structure 1

1.0.0.1 Makefile commands . . . 1

2 File Index 3

2.1 File List . . . 3

3 File Documentation 5

3.1 include/dRoll.h File Reference . . . 5

3.1.1 Function Documentation . . . 5

3.1.1.1 dRoll() [1/2] . . . 5

3.1.1.2 dRoll() [2/2] . . . 5

3.2 include/mainRoll.h File Reference . . . 6

3.2.1 Function Documentation . . . 6

3.2.1.1 mainRoll() . . . 6

3.3 README.md File Reference . . . 6

3.4 src/dRoll.cpp File Reference . . . 6

3.4.1 Function Documentation . . . 7

3.4.1.1 dRoll() [1/2] . . . 7

3.4.1.2 dRoll() [2/2] . . . 7

3.5 src/main.cpp File Reference . . . 7

3.5.1 Function Documentation . . . 7

3.5.1.1 main() . . . 7

3.6 src/mainRoll.cpp File Reference . . . 8

3.6.1 Function Documentation . . . 8

3.6.1.1 mainRoll() . . . 8

Index 9

Chapter 1

C++ Project Structure

TODO:

- [ ] Write a simple test
- [ ] Add test to Makefile

The Makefile will make the following folder structure:

- **bin**: for output executables (targets), both for the app and for any spikes and tests.
- **build**: for object/binary files created during compilation (this is removed by `make clean`).
- **doc**: for notes, configuration files and documentation.
- **include**: for the applications header files.
- **lib**: for any libraries that is compiled by the project.
- **resources**: for data files used by the executable.
- **scripts**: for scipts that can benefit the project (e.g. Python or bash scripts).
- **spike**: for smaller classes or files to test technologies or ideas.
- **src**: for the applications source files.
- **tests**: for all test code files.

1.0.0.1 Makefile commands

The following commands can be used with this Makefile:

- `make`
- `make all`
- `make build`
- `make clean`
- `make debug`
- `make release`

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

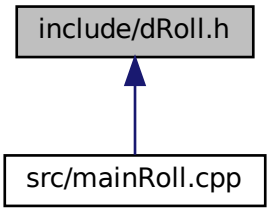
include/dRoll.h 5
include/mainRoll.h 6
src/dRoll.cpp 6
src/main.cpp 7
src/mainRoll.cpp 8

Chapter 3

File Documentation

3.1 include/dRoll.h File Reference

This graph shows which files directly or indirectly include this file:



Functions

- int dRoll (int k, int n, int b=0)
- int dRoll (int n)

3.1.1 Function Documentation

3.1.1.1 dRoll() [1/2]

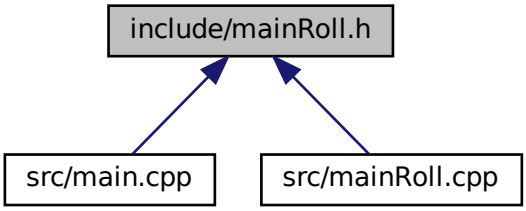
```
int dRoll (
            int k,
            int n,
            int b = 0 )
```

3.1.1.2 dRoll() [2/2]

```
int dRoll (
            int n )
```

3.2 include/mainRoll.h File Reference

This graph shows which files directly or indirectly include this file:



Functions

- int mainRoll (int argc, char ∗argv[ ])

3.2.1 Function Documentation

3.2.1.1 mainRoll()

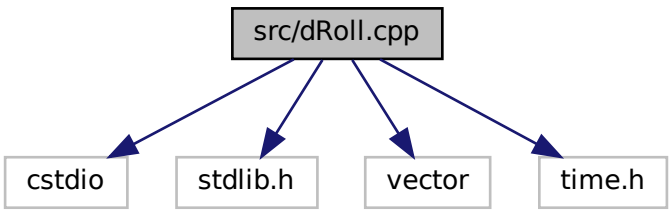
```
int mainRoll (
            int argc,
            char * argv[] )
```

3.3 README.md File Reference

3.4 src/dRoll.cpp File Reference

```
#include <cstdio>
#include <stdlib.h>
#include <vector>
#include <time.h>
```

Include dependency graph for dRoll.cpp:



Functions

- int dRoll (int k, int n, int b=0)
- int dRoll (int n)

3.4.1 Function Documentation

3.4.1.1 dRoll() [1/2]

```
int dRoll (
            int k,
            int n,
            int b = 0 )
```

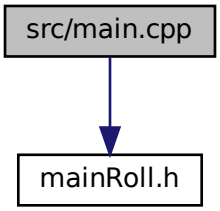
3.4.1.2 dRoll() [2/2]

```
int dRoll (
            int n )
```

3.5 src/main.cpp File Reference

```
#include "mainRoll.h"
```

Include dependency graph for main.cpp:



Functions

- int main (int argc, char ∗argv[ ])

3.5.1 Function Documentation

3.5.1.1 main()

```
int main (
            int argc,
            char * argv[] )
```

MAIN function

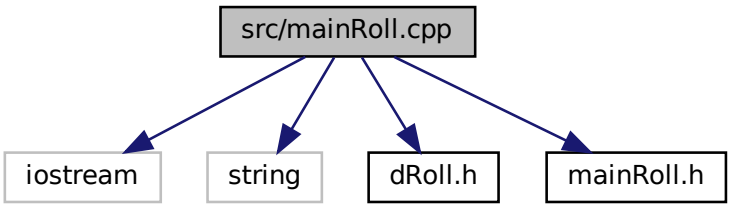
Parameters

argument	list

3.6 src/mainRoll.cpp File Reference

```
#include <iostream>
#include <string>
#include "dRoll.h"
#include "mainRoll.h"
```

Include dependency graph for mainRoll.cpp:



Functions

- int mainRoll (int argc, char ∗argv[ ])

3.6.1 Function Documentation

3.6.1.1 mainRoll()

```
int mainRoll (
            int argc,
            char * argv[] )
```

Index

dRoll
    dRoll.cpp, 7
    dRoll.h, 5
dRoll.cpp
    dRoll, 7
dRoll.h
    dRoll, 5

include/dRoll.h, 5
include/mainRoll.h, 6

main
    main.cpp, 7
main.cpp
    main, 7
mainRoll
    mainRoll.cpp, 8
    mainRoll.h, 6
mainRoll.cpp
    mainRoll, 8
mainRoll.h
    mainRoll, 6

README.md, 6

src/dRoll.cpp, 6
src/main.cpp, 7
src/mainRoll.cpp, 8