

src/printStars.h

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1 // Title : printStars.h
2 // Desc : Header file for printStars.cpp
3 // Name : An Tran
4
5 #include <vector>
6 #include <cstdlib>
7
8 #ifndef PRINT_STARS_H
9 #define PRINT_STARS_H
10
11 size_t getNumberRange();
12 // Desc: gets positive number and throws "The input does not meet the
13 // requirement" if equals 0
14 // Receives: none
15 // Returns: size_t
16
17 size_t getNumberSize();
18 // Desc: gets number and throws "The input does not meet the requirement" if the
19 // number doesn't meet the requirement
20 // Receives: none
21 // Returns: size_t
22
23 size_t genRandomNumber(size_t&);
24 // Desc: generates random number from 0 - range and returns
25 // Receives: size_t&
26 // Returns: size_t
27
28 int scaleNumber(size_t&, size_t&);
29 // Desc: scales the generatedNumber to the desire range [-number, +number]
30 // Receives: size_t&, size_t&
31 // Returns: int
32
33 void fillVector(std::vector<int>&, size_t&, size_t&);
34 // Desc: Uses genRandomNumber function to scale the generatedNumber and uses them
35 // to push onto the vector
36 // Receives: vector<int>, size_t&, size_t&
37 // Returns: void
38
39 void printStars(std::vector<int>&);
40 // Desc: Prints stars based on user enter int. print vector[index] stars and
41 // vector[index]+1 blanks, shown as " * * * ".
42 // If number is negative, print vector[index]+1 stars and vector[index]
43 // blanks, shown as "* * * *".
44 // Receives: vector<int>
45 // Returns: void
46
47 #endif
```