CodeStepByStep

< marshallMathers

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nameGame >

nameDiamond ♡

Language/Type:	C++ string parameters
Related Links:	string strlib.h

Write a function named **nameDiamond** that accepts a string as a parameter and prints it in a "diamond" format as shown below. For example, the call of nameDiamond("MARTY"); should print:

```
M
MA
MAR
MART
MARTY
 ARTY
  RTY
   TY
    Y
```

.
.
.

```
 1  string nameDiamond(string str);
 2
 3
 4  string nameDiamond(string str){
 5
 6      string returnstr = "";
 7      for(int i = 1 ; i< (str.size()*2); i++){
 8          if(i<str.size()){
 9              cout << str.substr(0,i) << endl;
10          }
11          else{
12              for(int j = 0;j<i-str.size();j++){
13                  cout << " ";
14              }
15              cout << str.substr(i-str.size(),str.size()) << endl;
16          }
17      }
18      return returnstr;
```

```
19 }
```

Function: Write a C++ function as described, not a complete
program.

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✅ **You passed 2 of 2 tests.**   ✖

test #1:	`nameDiamond("MARTY");`
| **console output:** | ```
M
MA
MAR
MART
MARTY
 ARTY
  RTY
   TY
    Y
``` |
| **result:** | ✅ pass |

test #2:	`nameDiamond("Bill Nye");`
| **console output:** | ```
B
Bi
Bil
Bill
Bill
Bill N
Bill Ny
Bill Nye
 ill Nye
  ll Nye
   l Nye
     Nye
     Nye
      ye
       e
``` |
| **result:** | ✅ pass |

Need help?   ℹ

Stuck on an exercise? Contact your TA or instructor.

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