

SABlythe / CSC24400-Spring2021

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CSC24400-Spring2021 / PFA_2_25 / PartiallyFilledArray.cpp



SABlythe Added overloaded operator= to PFA class.

🕒 History

👤 1 contributor

Raw

Blame



85 lines (69 sloc) | 1.51 KB

```
1  #include "PartiallyFilledArray.hpp"
2
3  #include <iostream>
4  #include <string>
5
6  using namespace std;
7
8  PartiallyFilledArray::PartiallyFilledArray()
9  {
10     _array = new string[20];
11     _currSize = 0;
12 }
13
14 PartiallyFilledArray::PartiallyFilledArray(int maxSize)
15 {
16     _array = new string[maxSize];
17     _currSize = 0;
18 }
19
20
21 void
22 PartiallyFilledArray::add(const string &toAdd)
23 {
24     _array[_currSize] = toAdd;
25     _currSize++;
26 }
27
```

```
28 void
29 PartiallyFilledArray::operator+=(const std::string &toAdd)
30 {
31     add(toAdd);
32 }
33
34 void
35 PartiallyFilledArray::operator+=(const PartiallyFilledArray &otherPFA)
36 {
37     for (int index=0; index < otherPFA._currSize; index++)
38     {
39         *this += otherPFA._array[index];
40     }
41 }
42
43 string&
44 PartiallyFilledArray::operator[] (int index)
45 {
46     if (index < _currSize)
47         return _array[index];
48     else
49     {
50         cerr << "invalid index (" << index << ") ... size is "
51             << _currSize << endl;
52         string *answer = new string;
53         return *answer;
54     }
55 }
56
57 const PartiallyFilledArray&
58 PartiallyFilledArray::operator=(const PartiallyFilledArray &rhs)
59 {
60     _array = new string[rhs._currSize];
61     // fill it in
62     for (int index=0; index< rhs._currSize; index++)
63         _array[index] = rhs._array[index];
64
65     _currSize = rhs._currSize;
66
67     return *this;
68 }
69
70 ostream&
71 PartiallyFilledArray::print(ostream &toThisStream) const
72 {
73     for (int index=0; index<_currSize; index++)
74     {
75         toThisStream << *(_array+index) << endl;
```

```
76     }
77
78     return toThisStream;
79 }
80
81
82 std::ostream& operator<<(std::ostream &os, const PartiallyFilledArray &pfa)
83 {
84     return pfa.print(os);
85 }
```