```
#include "Inventory.h"
 3
    Inventory::Inventory()
 4
         this->cap = 10;
 5
         this->nrOfItems = 0;
 6
         this->itemArr = new Item *[cap];
 7
 8
 9
    }
10
11
    Inventory::~Inventory()
12
13
         for (size_t i = 0; i < this->nr0fItems; i++)
14
15
             delete this->itemArr[i];
16
17
18
         delete[] itemArr;
19
     }
20
    void Inventory::addItem(const Item& item)
21
22
23
         if (this->nr0fItems >= this->cap)
24
25
             expand();
         }
26
27
         this->itemArr[this->nrOfItems++] = new Item(item);
28
29
30
     void Inventory::removeItem(int index)
31
32
    {
33
         // get to later
34
     }
35
36
    void Inventory::expand()
37
38
         this->cap *= 2;
39
40
         Item **tempArr = new Item * [this->cap];
41
42
         for (size_t i = 0; i < this->nr0fItems; i++)
43
44
             tempArr[i] = new Item(*this->itemArr[i]);
45
         }
46
47
         for (size_t i = 0; i < this->nr0fItems; i++)
48
49
             delete this->itemArr[i];
50
         }
51
52
         delete[] this->itemArr;
53
54
55
         this->itemArr = tempArr;
56
57
         this->initialize(this->nrOfItems);
58
    }
59
    void Inventory::initialize(const int from)
60
61
         for (size_t i = from; i < cap; i++)</pre>
```