

Amortized analysis: Accounting method
* Maintaining Dynamic tables
- How do we implement the vector class in STL efficiently
- Lustes of arbitrary sizes
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- O(1) - access times
- Linked lists does not allow O(1)-acces times
- Resizing arrays seem expensive
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Algorithmic idea:
- Initialize an array of some size m
- Whenever the array is full, create a new
array of size am, copy-the elements into
,
-the new array, deleting—the old array
Can take O(n) in the worst-case for
one insertion!
Pay extra cost/operation
Use the extra cost for a more expensive operation later
operation later

