

Arrays : pros & cons

- + access to an element is fast
- only get and set elements
 - * arrays can't grow
 - * arrays can't shrink
 - * in C++, arrays don't know how big they are

List : abstract data type (ADT)

- + access to elements by index
- + size of list known
- + grow or shrink
- * elements are in order
- * index checking

```
template <typename T>
class List {
public:
    virtual int getSize() = 0;
    virtual void insertLast(T s) = 0;
    virtual T removeFirst() = 0;
    virtual T get(int idx) = 0;
};
```