# Item 4 - Maximally Reusable Generic Containers - Part 1

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## Contents

## 1  Question

*How flexible can you make this simple container class?*

How can you best implement copy construction and copy assignment for the following fixed-length vector class? How can you provide maximum usability for construction and assignment?

```cpp
template<typename T, size_t size>
  class fixed_vector {
  public:
      typedef T* iterator;
      typedef const T* const_iterator;
      iterator begin()        { return v_; }
      iterator end()          { return v_ + size; }
      const_iterator begin() const { return v_; }
      const_iterator end()   const { return v_ + size; }

  private:
      T v_[size];
  };
```

# 2   Answer

I would use the default copy constructor and default copy assignment operator, which already copy the contents of $v\_$.