Function Templates

```
template <typename T> // square number
T sq(T x)
       return x*x;
template <typename Container, typename F>
void apply(Container& c, F f){ // x <- f(x) forall x in c</pre>
       for(auto& x: c)
       x = f(x):
int main(){
       std::vector<int> v={1,2,3}:
       apply(v,sq<int>);
       output(v); // 1 4 9
```