

```
/*
 * ComparatorInterface.h
 *
 * Created on: Oct 4, 2016
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 */

#ifndef COMPARATORINTERFACE_H_
#define COMPARATORINTERFACE_H_
/**
 * Interface for comparing different types of data members for sorting algorithms
 */
template<typename T> class ComparatorInterface {
public:
    virtual int compare(T obj1, T obj2) = 0;
    /**
     * Precondition:
     *     none
     * Postcondition:
     *     return an int < 0 if obj1 < obj2, > 0 if obj1 > obj2, or 0 if obj1 = obj2
     */
};

#endif /* COMPARATORINTERFACE_H_ */
```