Abstract basic class

In a customer project a global logging functionality is needed. A class needs to be created for this purpose. The interface for the abstract base class looks as follows:

```
interface TechDivision_Logger_Interface {
        public function info($message, $line = NULL);
        public function warning($message, $line = NULL);
        public function error($message, $line = NULL);
}
```

In the first step you have to create an abstract base class with a protected, abstract method _log($logLevel, $message, $line = NULL) implementing the interface shown above. The class has to be in line with the namespace conventions (Zend Framework).

Singleton design pattern

Write a real implementation *Atwix_Logger* of the abstract base class which will send the logging output by calling the protected method _log($logLevel, $message, $line = NULL) to the output configured in php.ini. Use the function
error_log (http://php.net/manual/en/function.error-log.php) for this purpose. The class shall use the singleton design pattern in a reasonable way.

Usage:
```
class Atwix_Example {

        protected $_names = array();

        public function __construct($names) {
                $this->setNames($names);
        }

        public function setNames($names) {
                $this->_names = $names;
        }

        public function getNames() {
                return $this->_names;
        }
}

$names = array(
        'Tim Wagner',
        'Yaroslav Rogoza',
        'Alexander Turyak',
```

'Viacheslav Kravchuk',);

$example = new Atwix_Example($names);
$example->renderNamesSorted();
Enlarge the class given above by a method renderNamesSorted() using the function *usort (http://php.net/manual/en/function.usort.php)* which sorts the array with the names ordered by the second name on the command line as follows:

console:~ php -f Example.php
console:~ Viacheslav Kravchuk, Yaroslav Rogoza, Alexander Turyak, Tim Wagner
For debugging purposes use the logger you implemented before. The logging output shall be as follows (or comparable):

Atwix_Example[info] 2010-09-28 18:40:25 – line 25 Viacheslav Kravchuk
Atwix_Example[info] 2010-09-28 18:40:25 – line 25 Yaroslav Rogoza
Atwix_Example[info] 2010-09-28 18:40:25 – line 25 Alexander Turyak
Atwix_Example[info] 2010-09-28 18:40:25 – line 25 Tim Wagner