# Code review        CHECKLIST

Use this form to help you perform a code review.

## About the code

Module name: **items**
Version reviewed: **1.0**
Code author: **Shouvik Kumar Chakraborty**

Reviewed by: **Sayantan Nandi**
Date: _____
Language: _____
Number of files: _____

## Automated inspection

- ☑ The code compiles without errors
- ☑ The code compiles without warnings
- ☑ There are unit tests
  - ☐ They are sufficient (include all boundary cases, etc.)
  - ☑ The code passes them

- ☑ The code is kept under source control
- ☑ The code has been tested with inspection tools

Tool name: **mocha**
Results: **test case passed**

| ☐ Continue to next section | ☐ Stop review here |

## Design

- ☐ The code is complete (against its specification)
- ☐ There is a good choice of algorithms
- ☑ Optimizations are necessary and appropriate
- ☐ Any missing functionality is marked clearly in the code

General observations about the code's design

- ☑ The code is well structured
- ☐ There is design documentation
  - ☐ The code matches the documentation

| ☐ Continue to next section | ☐ Stop review here |

## General code comments

General comments about the quality of the written code

### Style
- ☑ The code layout is clear
- ☐ It follows project style guidelines
- ☐ There is a good (unambiguous) public API
- ☐ There is a good choice of names

### Defensive programming
- ☐ Array access is guarded and safe (C/C++)
- ☐ There is a correct choice of types
- ☐ All input is validated
- ☐ There is no use of compiler-specific features

### Error handling
- ☐ Error conditions are routinely handled
- ☐ Assertions are used to validate logic
- ☑ The code is exception safe
- ☑ Errors are propogated, not hidden
- ☐ There are no resource leaks

- ☐ The code uses multiple threads
  - ☐ It is thread safe
  - ☐ There isn't potential for deadlock

### Structure
- ☐ There is no redundant code
- ☐ There is no cut-and-paste programming

### General comments
_____
_____
_____

| ☐ Continue to next section | ☐ Stop review here |

## Statement-level review

Fill out the table below, and move on to a new sheet as required. Rate issues on a scale from 0 (cosmetic/nice to have) to 5 (must fix).

| File | Line | Issue | | Rating |
|------|------|-------|---|--------|
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*Continue on a separate sheet (or mark up a paper copy of the code)*

## Follow-up

Record the outcome of the review here

### Conclusion:
- ☑ Code OK
- ☐ Rework and verify
- ☐ Rework and re-review

Complete work by: **Shouvik Kumar Chakraborty**

Assigned verifier: **Sayantan Nandi**