# Contributing

We love pull requests from everyone. By contributing to this repository, you

agree to abide by the [Code of Conduct](CODE\_OF\_CONDUCT.md).

## Get Started

\* First [fork][fork] the repository and then clone it using:

git clone git@github.com:your-username/algorithms.git

\* After that create a branch for your changes. For example:

\* add\_XXX if you will add new algorithms or data structures.

\* fix\_XXX if you will fixe a bug on a certain algorithm or data structure.

\* test\_XXX if you wrote a test/s.

\* doc\_XXX if you added to or edited documentation.

You may contribute by:

- implementing new algorithms in the repo. Be sure to keep it under

right section (e.g. [array](array), [dp](dp), etc). Make a new section for it if

it doesn't fall under any section. Make sure that your implementation works.

- optimizing or improving the existing algorithms.

- adding a different solution for the problem.

- finding and fixing bugs.

- adding examples to explain the algorithms better.

- adding test cases.

- improving documentation.

## Pull Requests

Push to your fork and [submit a pull request][pr].

We will review and may suggest some changes or improvements or alternatives.

Some things that will increase the chance that your pull request is accepted:

\* All algorithms should be written in \*\*Python 3\*\*.

(There are a few algorithms still in \_Python 2\_ syntax. You can start by converting

[those][issue120] to \_Python 3\_.)

\* Write clean and understandable code.

\* Properly comment the code and briefly explain what the algorithm is doing in the [docstrings][docstr].

\* You may also explain the output using a minimal example.

\* Try to also include a couple of test cases for the algorithm.

\* Write a [good commit message][commit].

## Issues

Submit a [new issue][newissue] if there is an algorithm to add, or if a bug was found in an existing algorithm. Before submitting a new issue please review the [existing issues][issues] to avoid creating duplicates. Also, consider resolving current issues or contributing to the discussion on an issue.

## Collaborators

You can ask for any help or clarifications from the collaborators.

[Keon Kim](https://github.com/keon)

[Rahul Goswami](https://github.com/goswami-rahul)

[Ankit Agarwal](https://github.com/ankit167)

[Hai Hoang Dang](https://github.com/danghai)

[Saad](https://github.com/SaadBenn)

[fork]: https://help.github.com/articles/fork-a-repo/

[docstr]: https://www.python.org/dev/peps/pep-0257/#multi-line-docstrings

[commit]: http://tbaggery.com/2008/04/19/a-note-about-git-commit-messages.html

[pr]: https://github.com/keon/algorithms/compare/

[newissue]: https://github.com/keon/algorithms/issues/new

[issue120]: https://github.com/keon/algorithms/issues/120

[issues]: https://github.com/keon/algorithms/issues/