

Homework Project 1

Given 09/18/2017, Due 10/02/2017

Implement the quickselect algorithm on arrays. You write one function

```
int quickselect(int *A, int k, int n);
```

which returns the k -th smallest entry of an array A of length n . The programming language is C or C++; test your code before submission using the `gcc` or `g++` compiler. Please remove all dead code; try to program as clearly as possible, since I try to read it. Your function for this should be less than fifty lines of code long. You can use the quicksort code that I distributed, but do not copy code from another student or from the web; this is an easy project.

Submit your source code by e-mail to phjmbrass@gmail.com; include the course (220) and homework number in the subject line, and your name as a comment in the homework file.