

PA02

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Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

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Chapter 2

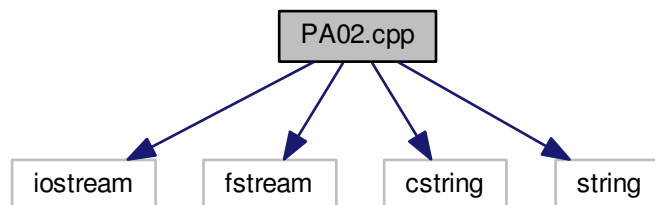
File Documentation

2.1 PA02.cpp File Reference

Implements the program entry point.

```
#include <iostream>
#include <fstream>
#include <cstring>
#include <string>
```

Include dependency graph for PA02.cpp:



Functions

- int **kSmall** (int kVal, int *array, int first, int last, std::string &log)
Returns the kth smallest value in an array.
- int **main** (int argc, char **argv)
Entry point/main function of the program.

2.1.1 Detailed Description

Implements the program entry point.

Author

Matthew Bauer File skeleton created by Shehryar Khattak for CS302 Spring 2016.

2.1.2 Function Documentation

2.1.2.1 `int kSmall (int kVal, int * array, int first, int last, std::string & log)`

Returns the kth smallest value in an array.

Parameters

<i>kVal</i>	The value of k.
<i>array</i>	The array to search. WARNING: is edited by the function.
<i>first</i>	The first item in the section of the array to search.
<i>last</i>	The last item in the section of the array to search.
<i>log</i>	The string to write the algorithm log into.

Precondition

```
last-first+1 >= k_val  
log == ""
```

Postcondition

The log parameter will be filled with a log report.

Returns

The kth smallest value in the given array.

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