

Upload format

- Let's say the original `pintos src` directory looks like this:

```
src
├── devices
│   ├── block.c
│   ├── block.h
│   ├── ide.c
│   ├── ide.h
│   ├── input.c
│   ├── input.h
│   ├── intq.c
│   ├── intq.h
│   ├── kbd.c
│   ├── kbd.h
│   ├── partition.c
│   ├── partition.h
│   ├── pit.c
│   ├── pit.h
│   ├── rtc.c
│   ├── rtc.h
│   ├── serial.c
│   ├── serial.h
│   ├── shutdown.c
│   ├── shutdown.h
│   ├── speaker.c
│   ├── speaker.h
│   ├── timer.c
│   ├── timer.h
│   ├── vga.c
│   └── vga.h
├── examples
│   ├── bubsort.c
│   ├── cat.c
│   ├── cmp.c
│   ├── cp.c
│   ├── echo.c
│   ├── halt.c
│   ├── hex-dump.c
│   ├── insult.c
│   ├── lib
│   │   └── user
│   ├── lineup.c
│   ├── ls.c
│   ├── Makefile
│   ├── matmult.c
│   ├── mcat.c
│   ├── mcp.c
│   └── mkdir.c
```

- pwd.c
- recursor.c
- rm.c
- shell.c
- **filesystem**
 - directory.c
 - directory.h
 - file.c
 - file.h
 - filesystem.c
 - filesystem.h
 - free-map.c
 - free-map.h
 - fsutil.c
 - fsutil.h
 - inode.c
 - inode.h
 - Makefile
 - Make.vars
 - off_t.h
- **lib**
 - arithmetic.c
 - ctype.h
 - debug.c
 - debug.h
 - inttypes.h
 - kernel
 - bitmap.c
 - bitmap.h
 - console.c
 - console.h
 - debug.c
 - hash.c
 - hash.h
 - list.c
 - list.h
 - stdio.h
 - limits.h
 - packed.h
 - random.c
 - random.h
 - round.h
 - stdarg.h
 - stdbool.h
 - stddef.h
 - stdint.h
 - stdio.c
 - stdio.h
 - stdlib.c
 - stdlib.h
 - string.c

- string.h
- syscall-nr.h
- user
 - console.c
 - debug.c
 - entry.c
 - stdio.h
 - syscall.c
 - syscall.h
 - user.lds
- ustar.c
- ustar.h
- LICENSE
- Make.config
- Makefile
- Makefile.build
- Makefile.kernel
- Makefile.userprog
- misc
 - bochs-2.2.6-big-endian.patch
 - bochs-2.2.6-build.sh
 - bochs-2.2.6-gdbstub-ENN.patch
 - bochs-2.2.6-jitter.patch
 - bochs-2.2.6-ms-extensions.patch
 - bochs-2.2.6-page-fault-segv.patch
 - bochs-2.2.6-paranoia.patch
 - bochs-2.2.6-solaris-link.patch
 - bochs-2.2.6-solaris-tty.patch
 - bochs-2.2.6-triple-fault.patch
 - gcc-3.3.6-cross-howto
 - gdb-macros
- tests
 - Algorithm
 - Diff.pm
 - arc4.c
 - arc4.h
 - arc4.pm
 - cksum.c
 - cksum.h
 - cksum.pm
 - filesys
 - base
 - child-syn-read.c
 - child-syn-wrt.c
 - full.inc
 - lg-create.c
 - lg-create.ck
 - lg-full.c
 - lg-full.ck
 - lg-random.c
 - lg-random.ck

- lg-seq-block.c
- lg-seq-block.ck
- lg-seq-random.c
- lg-seq-random.ck
- Make.tests
- random.inc
- Rubric
- seq-block.inc
- seq-random.inc
- sm-create.c
- sm-create.ck
- sm-full.c
- sm-full.ck
- sm-random.c
- sm-random.ck
- sm-seq-block.c
- sm-seq-block.ck
- sm-seq-random.c
- sm-seq-random.ck
- syn-read.c
- syn-read.ck
- syn-read.h
- syn-remove.c
- syn-remove.ck
- syn-write.c
- syn-write.ck
- syn-write.h
- create.inc
- extended
 - child-syn-rw.c
 - dir-empty-name.c
 - dir-empty-name.ck
 - dir-empty-name-persistence.ck
 - dir-mkdir.c
 - dir-mkdir.ck
 - dir-mkdir-persistence.ck
 - dir-mk-tree.c
 - dir-mk-tree.ck
 - dir-mk-tree-persistence.ck
 - dir-open.c
 - dir-open.ck
 - dir-open-persistence.ck
 - dir-over-file.c
 - dir-over-file.ck
 - dir-over-file-persistence.ck
 - dir-rm-cwd.c
 - dir-rm-cwd.ck
 - dir-rm-cwd-persistence.ck
 - dir-rmdir.c
 - dir-rmdir.ck
 - dir-rmdir-persistence.ck

			dir-rm-parent.c
			dir-rm-parent.ck
			dir-rm-parent-persistence.ck
			dir-rm-root.c
			dir-rm-root.ck
			dir-rm-root-persistence.ck
			dir-rm-tree.c
			dir-rm-tree.ck
			dir-rm-tree-persistence.ck
			dir-under-file.c
			dir-under-file.ck
			dir-under-file-persistence.ck
			dir-vine.c
			dir-vine.ck
			dir-vine-persistence.ck
			grow-create.c
			grow-create.ck
			grow-create-persistence.ck
			grow-dir.inc
			grow-dir-lg.c
			grow-dir-lg.ck
			grow-dir-lg-persistence.ck
			grow-file-size.c
			grow-file-size.ck
			grow-file-size-persistence.ck
			grow-root-lg.c
			grow-root-lg.ck
			grow-root-lg-persistence.ck
			grow-root-sm.c
			grow-root-sm.ck
			grow-root-sm-persistence.ck
			grow-seq.inc
			grow-seq-lg.c
			grow-seq-lg.ck
			grow-seq-lg-persistence.ck
			grow-seq-sm.c
			grow-seq-sm.ck
			grow-seq-sm-persistence.ck
			grow-sparse.c
			grow-sparse.ck
			grow-sparse-persistence.ck
			grow-tell.c
			grow-tell.ck
			grow-tell-persistence.ck
			grow-two-files.c
			grow-two-files.ck
			grow-two-files-persistence.ck
			Make.tests
			mk-tree.c
			mk-tree.h
			Rubric.functionality

```

├── Rubric.persistence
├── Rubric.robustness
├── syn-rw.c
├── syn-rw.ck
├── syn-rw.h
├── syn-rw-persistence.ck
├── tar.c
├── Grading.no-vm
├── Grading.with-vm
├── seq-test.c
├── seq-test.h
├── internal
│   ├── list.c
│   ├── stdio.c
│   └── stdlib.c
├── lib.c
├── lib.h
├── lib.pm
├── main.c
├── main.h
├── make-grade
├── Make.tests
├── random.pm
├── tests.pm
├── threads
│   ├── alarm-multiple.ck
│   ├── alarm-negative.c
│   ├── alarm-negative.ck
│   ├── alarm.pm
│   ├── alarm-priority.c
│   ├── alarm-priority.ck
│   ├── alarm-simultaneous.c
│   ├── alarm-simultaneous.ck
│   ├── alarm-single.ck
│   ├── alarm-wait.c
│   ├── alarm-zero.c
│   ├── alarm-zero.ck
│   ├── Grading
│   ├── Make.tests
│   ├── mlfqs-block.c
│   ├── mlfqs-block.ck
│   ├── mlfqs-fair-20.ck
│   ├── mlfqs-fair-2.ck
│   ├── mlfqs-fair.c
│   ├── mlfqs-load-1.c
│   ├── mlfqs-load-1.ck
│   ├── mlfqs-load-60.c
│   ├── mlfqs-load-60.ck
│   ├── mlfqs-load-avg.c
│   ├── mlfqs-load-avg.ck
│   └── mlfqs-nice-10.ck

```

- mlfqs-nice-2.ck
- mlfqs.pm
- mlfqs-recent-1.c
- mlfqs-recent-1.ck
- priority-change.c
- priority-change.ck
- priority-condvar.c
- priority-condvar.ck
- priority-donate-chain.c
- priority-donate-chain.ck
- priority-donate-lower.c
- priority-donate-lower.ck
- priority-donate-multiple2.c
- priority-donate-multiple2.ck
- priority-donate-multiple.c
- priority-donate-multiple.ck
- priority-donate-nest.c
- priority-donate-nest.ck
- priority-donate-one.c
- priority-donate-one.ck
- priority-donate-sema.c
- priority-donate-sema.ck
- priority-fifo.c
- priority-fifo.ck
- priority-preempt.c
- priority-preempt.ck
- priority-sema.c
- priority-sema.ck
- Rubric.alarm
- Rubric.mlfqs
- Rubric.priority
- tests.c
- tests.h
- userprog
 - args.c
 - args-dbl-space.ck
 - args-many.ck
 - args-multiple.ck
 - args-none.ck
 - args-single.ck
 - bad-jump2.c
 - bad-jump2.ck
 - bad-jump.c
 - bad-jump.ck
 - bad-read2.c
 - bad-read2.ck
 - bad-read.c
 - bad-read.ck
 - bad-write2.c
 - bad-write2.ck
 - bad-write.c

- bad-write.ck
- boundary.c
- boundary.h
- child-bad.c
- child-close.c
- child-rox.c
- child-simple.c
- close-bad-fd.c
- close-bad-fd.ck
- close-normal.c
- close-normal.ck
- close-stdin.c
- close-stdin.ck
- close-stdout.c
- close-stdout.ck
- close-twice.c
- close-twice.ck
- create-bad-ptr.c
- create-bad-ptr.ck
- create-bound.c
- create-bound.ck
- create-empty.c
- create-empty.ck
- create-exists.c
- create-exists.ck
- create-long.c
- create-long.ck
- create-normal.c
- create-normal.ck
- create-null.c
- create-null.ck
- exec-arg.c
- exec-arg.ck
- exec-bad-ptr.c
- exec-bad-ptr.ck
- exec-missing.c
- exec-missing.ck
- exec-multiple.c
- exec-multiple.ck
- exec-once.c
- exec-once.ck
- exit.c
- exit.ck
- Grading
- halt.c
- halt.ck
- lib
 - user
- Make.tests
- multi-child-fd.c
- multi-child-fd.ck

- multi-recurse.c
- multi-recurse.ck
- no-vm
 - Make.tests
 - multi-oom.c
 - multi-oom.ck
 - Rubric
- null.ck
- open-bad-ptr.c
- open-bad-ptr.ck
- open-boundary.c
- open-boundary.ck
- open-empty.c
- open-empty.ck
- open-missing.c
- open-missing.ck
- open-normal.c
- open-normal.ck
- open-null.c
- open-null.ck
- open-twice.c
- open-twice.ck
- read-bad-fd.c
- read-bad-fd.ck
- read-bad-ptr.c
- read-bad-ptr.ck
- read-boundary.c
- read-boundary.ck
- read-normal.c
- read-normal.ck
- read-stdout.c
- read-stdout.ck
- read-zero.c
- read-zero.ck
- rox-child.c
- rox-child.ck
- rox-child.inc
- rox-multichild.c
- rox-multichild.ck
- rox-simple.c
- rox-simple.ck
- Rubric.functionality
- Rubric.robustness
- sample.inc
- sample.txt
- sc-bad-arg.c
- sc-bad-arg.ck
- sc-bad-sp.c
- sc-bad-sp.ck
- sc-boundary-2.c
- sc-boundary-2.ck

```

├── sc-boundary.c
├── sc-boundary.ck
├── wait-bad-pid.c
├── wait-bad-pid.ck
├── wait-killed.c
├── wait-killed.ck
├── wait-simple.c
├── wait-simple.ck
├── wait-twice.c
├── wait-twice.ck
├── write-bad-fd.c
├── write-bad-fd.ck
├── write-bad-ptr.c
├── write-bad-ptr.ck
├── write-boundary.c
├── write-boundary.ck
├── write-normal.c
├── write-normal.ck
├── write-stdin.c
├── write-stdin.ck
├── write-zero.c
├── write-zero.ck
└── vm
    ├── child-inherit.c
    ├── child-linear.c
    ├── child-mm-wrt.c
    ├── child-qsort.c
    ├── child-qsort-mm.c
    ├── child-sort.c
    ├── Grading
    ├── Make.tests
    ├── mmap-bad-fd.c
    ├── mmap-bad-fd.ck
    ├── mmap-clean.c
    ├── mmap-clean.ck
    ├── mmap-close.c
    ├── mmap-close.ck
    ├── mmap-exit.c
    ├── mmap-exit.ck
    ├── mmap-inherit.c
    ├── mmap-inherit.ck
    ├── mmap-misalign.c
    ├── mmap-misalign.ck
    ├── mmap-null.c
    ├── mmap-null.ck
    ├── mmap-over-code.c
    ├── mmap-over-code.ck
    ├── mmap-over-data.c
    ├── mmap-over-data.ck
    ├── mmap-overlap.c
    └── mmap-overlap.ck

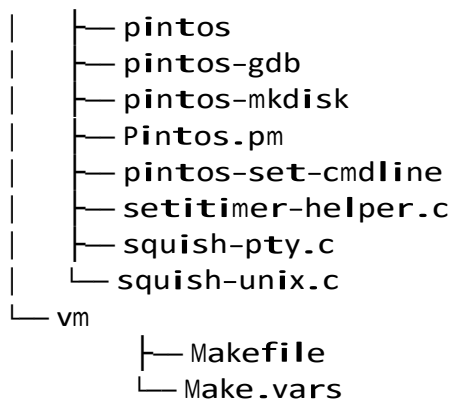
```

- mmap-over-stk.c
- mmap-over-stk.ck
- mmap-read.c
- mmap-read.ck
- mmap-remove.c
- mmap-remove.ck
- mmap-shuffle.c
- mmap-shuffle.ck
- mmap-twice.c
- mmap-twice.ck
- mmap-unmap.c
- mmap-unmap.ck
- mmap-write.c
- mmap-write.ck
- mmap-zero.c
- mmap-zero.ck
- page-linear.c
- page-linear.ck
- page-merge-mm.c
- page-merge-mm.ck
- page-merge-par.c
- page-merge-par.ck
- page-merge-seq.c
- page-merge-seq.ck
- page-merge-stk.c
- page-merge-stk.ck
- page-parallel.c
- page-parallel.ck
- page-shuffle.c
- page-shuffle.ck
- parallel-merge.c
- parallel-merge.h
- process_death.pm
- pt-bad-addr.c
- pt-bad-addr.ck
- pt-bad-read.c
- pt-bad-read.ck
- pt-big-stk-obj.c
- pt-big-stk-obj.ck
- pt-grow-bad.c
- pt-grow-bad.ck
- pt-grow-pusha.c
- pt-grow-pusha.ck
- pt-grow-stack.c
- pt-grow-stack.ck
- pt-grow-stk-sc.c
- pt-grow-stk-sc.ck
- pt-write-code-2.c
- pt-write-code2.ck
- pt-write-code.c
- pt-write-code.ck

```

|
|   ├── qsort.c
|   ├── qsort.h
|   ├── Rubric.functionality
|   ├── Rubric.robustness
|   ├── sample.inc
|   └── sample.txt
|
|── threads
|   ├── flags.h
|   ├── init.c
|   ├── init.h
|   ├── interrupt.c
|   ├── interrupt.h
|   ├── intr-stubs.h
|   ├── intr-stubs.S
|   ├── io.h
|   ├── kernel.ld.s
|   ├── loader.h
|   ├── loader.S
|   ├── Makefile
|   ├── Make.vars
|   ├── malloc.c
|   ├── malloc.h
|   ├── pallocc.c
|   ├── pallocc.h
|   ├── pte.h
|   ├── start.S
|   ├── switch.h
|   ├── switch.S
|   ├── synch.c
|   ├── synch.h
|   ├── thread.c
|   ├── thread.h
|   └── vaddr.h
|
|── userprog
|   ├── exception.c
|   ├── exception.h
|   ├── gdt.c
|   ├── gdt.h
|   ├── Makefile
|   ├── Make.vars
|   ├── pagedir.c
|   ├── pagedir.h
|   ├── process.c
|   ├── process.h
|   ├── syscall.c
|   ├── syscall.h
|   ├── tss.c
|   └── tss.h
|
|── utils
|   ├── backtrace
|   └── Makefile

```



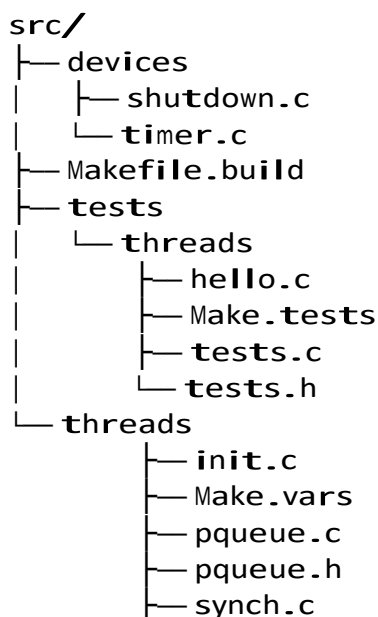
- Let's say you have only made changes to the following files:

```

src/threads/init.c
src/threads/pqueue.h
src/threads/synch.c
src/threads/pqueue.c
src/threads/Make.vars
src/threads/thread.c
src/threads/thread.h
src/devices/shutdown.c
src/devices/timer.c
src/Makefile.build
src/tests/threads/Make.tests
src/tests/threads/tests.c
src/tests/threads/hello.c
src/tests/threads/tests.h

```

- Then include only these files (i.e. only the file that you've made changes to keeping the directory structure intact). So, your submission will have a src directory that looks like this:



```
├─ thread.c
└─ thread.h
```

- The idea is that merging (with replacement) the `src` directory-tree from your submission onto the original `src` directory-tree should give the full buildable `src` directory-tree for your project.
- Do **NOT** include the build directory/directories. You'll lose marks for that. Name your
- report file `report.pdf` and place it and `src` in a directory named `<RollNo1>_<RollNo2>` (`<RollNo1>` for *single person teams*), where `<RollNo1>`, `<RollNo2>` are the roll numbers of the team members.
 - Example: `2018201001_2018201002`
- Tar-GZip this directory into `<RollNo1>_<RollNo2>.tar.gz`
(Or `<RollNo1>.tar.gz` for single person teams)
 - Example: `2018201001_2018201002.tar.gz`