## CSC209H Worksheet: Select

Consider the man page of an imaginary system call office\_hours. Type ps\_set is a defined type, similar to type fd\_set that we use with select.

```
OFFICE_HOURS(2)
                             BSD System Calls Manual
                                                                  OFFICE_HOURS(2)
NAME
     PS_CLR, PS_ISSET, PS_SET, PS_ZERO, office_hours
SYNOPSIS
     void PS_CLR(int ps, ps_set *psset);
     int PS_ISSET(int ps, ps_set *psset);
     void PS_SET(int ps, ps_set *psset);
     void PS_ZERO(ps_set *psset);
     int officehours(ps_set *prof, struct timeval window);
DESCRIPTION
     office_hour.
professor set prof to see which have office hours scheduled within the
given window from the current time. office_hours() replaces the
professor set with the aubset of professors who have office hours
                        nttps://powcoder.com
in the given window.
RETURN VALUE
     office_hours() returns the number of professors from the ps_set
who have office hours in the window ore (if an error cours. CO(
If office_hours() returns with an error, the descriptor sets will be
unmodified and the global variable errno will be set to indicate the error.
```

Suppose that (like file descriptors), professors are represented by small integers and there are professors defined as follows:

```
#define MICHELLE 1
#define ANDREW 2
#define JEN 3
#define ALAN 4
... (there are more)
```

You are only interested in office hours held by Jen or Michelle in the next 5 hours. Finish the program on the other side of this page, so that it calls office\_hours and then prints either the message "Jen has office hours" or the message "Michelle has office hours" or both messages as appropriate.

Demonstrate that you know how to properly check for errors on a system call by writing the code to give the conventional behaviour if office\_hours fails.

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```
int main() {
    // set up the second argument to office_hours
    // (this is done for you and you do not need to set any other fields)
    struct timeval window;
    window.interval = 5 * 60;

    // set up first argument to office_hours

// call office_hours (use window as the second parameter)
```

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// print the appropriate message(s)

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