



{EPITECH.}

Panoramix

B-CCP-400

The project

Language: C



Time: 2 weeks



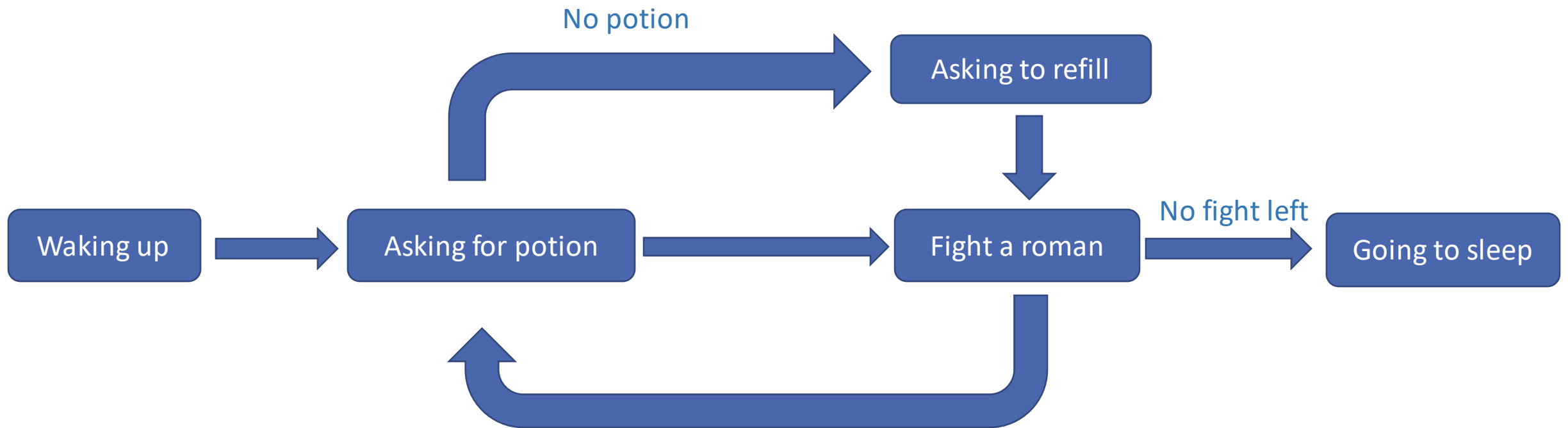
Number of people: alone



Gallic battle



Villager fight

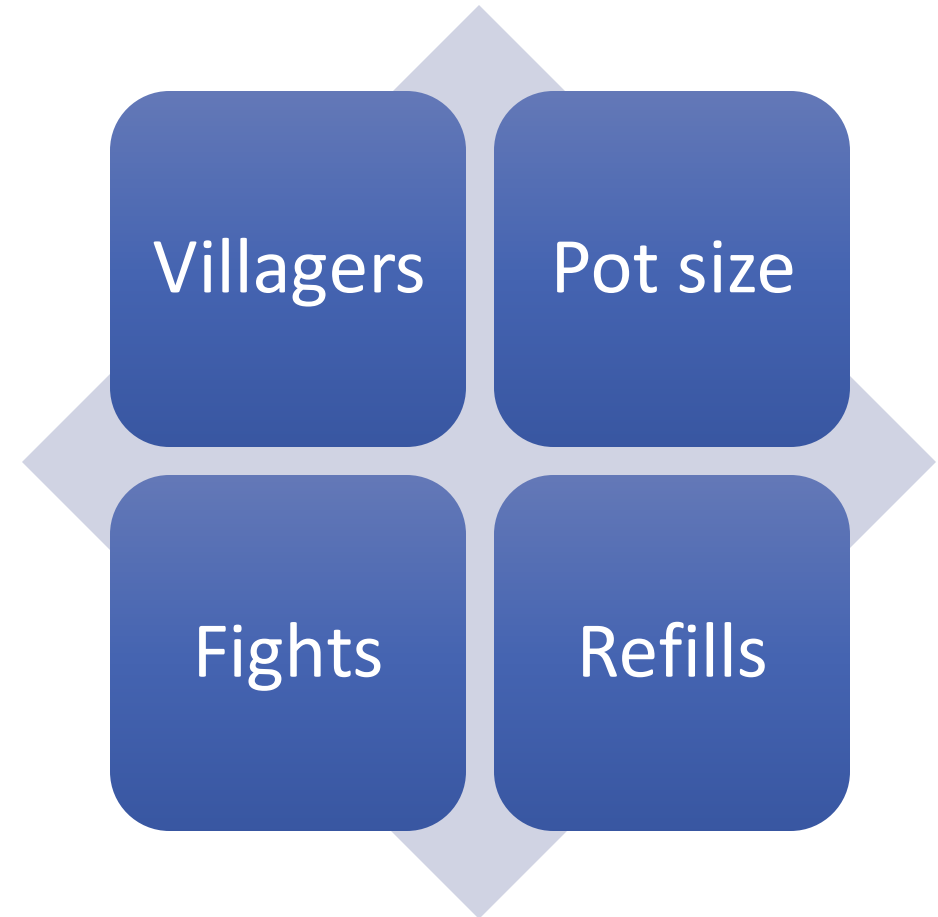


Druid goal



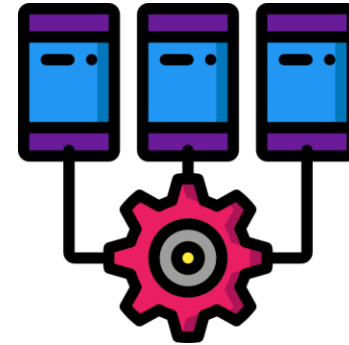
Parameters

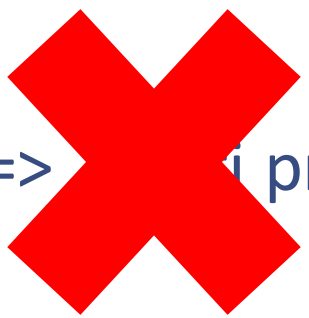
4 positive number
(handle the error case)



Introduction to multi-threading

Executing multiple task at the same time



fork =>  process

Share the heap



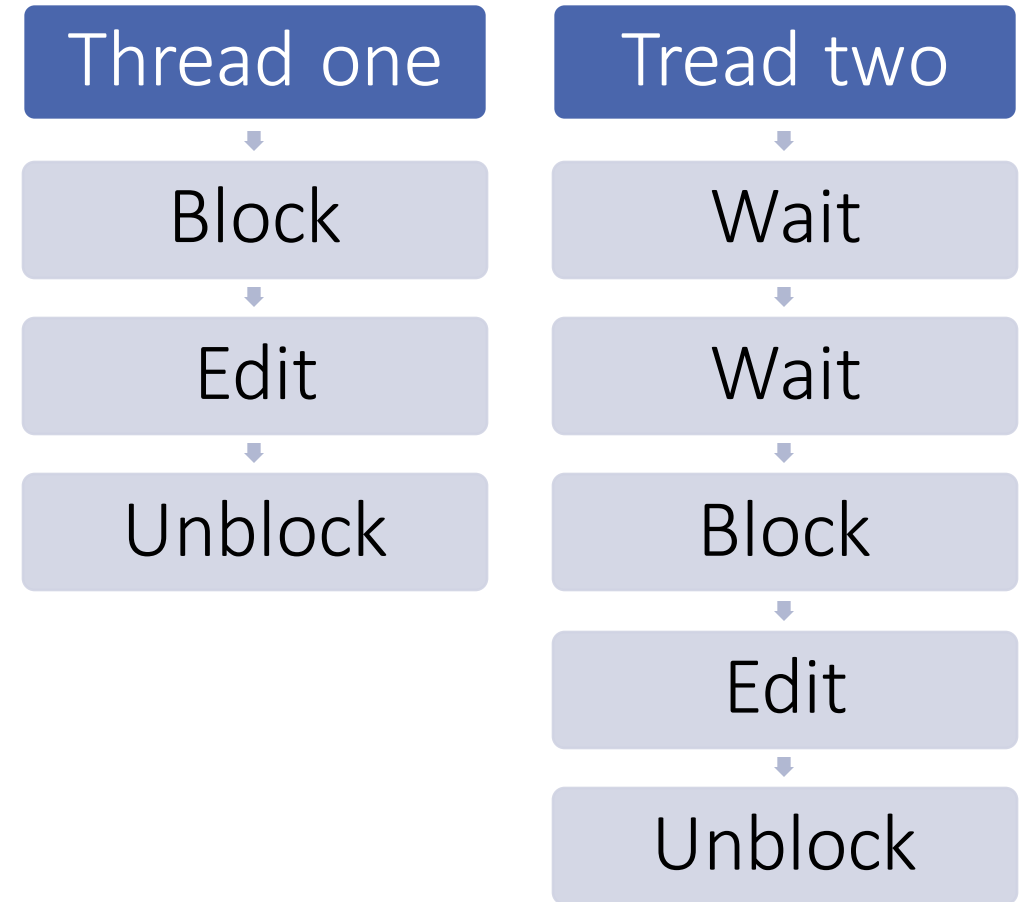
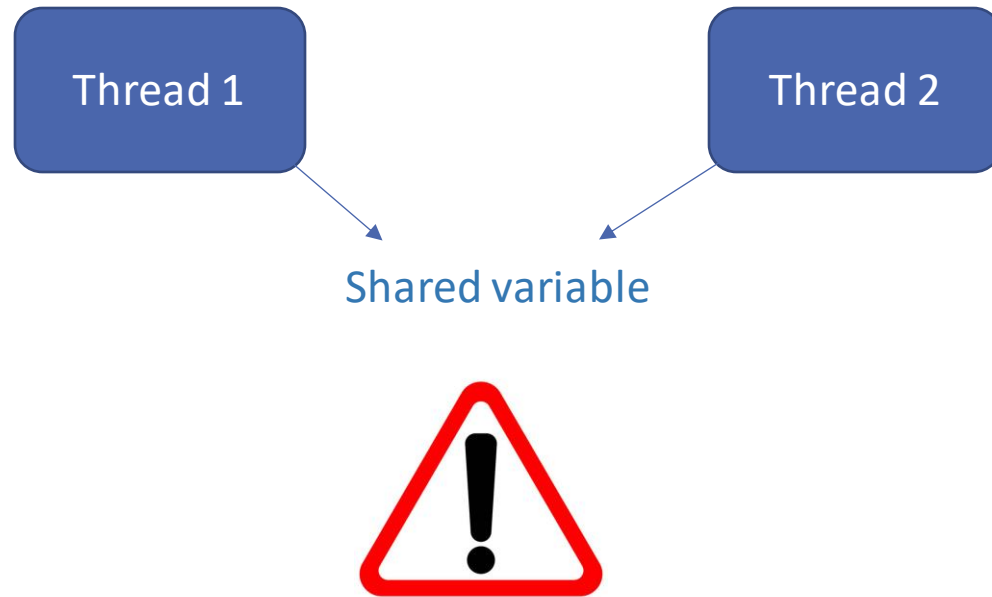
How to do multi-threading

Use the pthread library

```
int pthread_create(pthread_t *,
                  const pthread_attr_t *,
                  void *(*function_to_run) (void *) ,
                  void *arg);
```

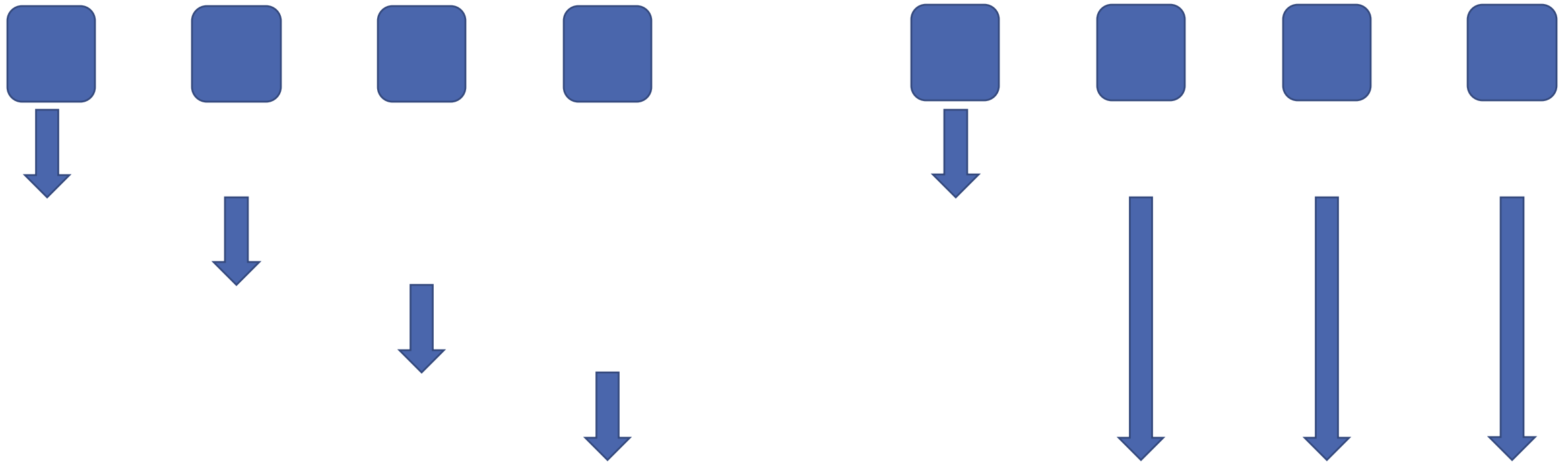
```
int pthread_join(pthread_t thread, void **retval);
```


Mutexes

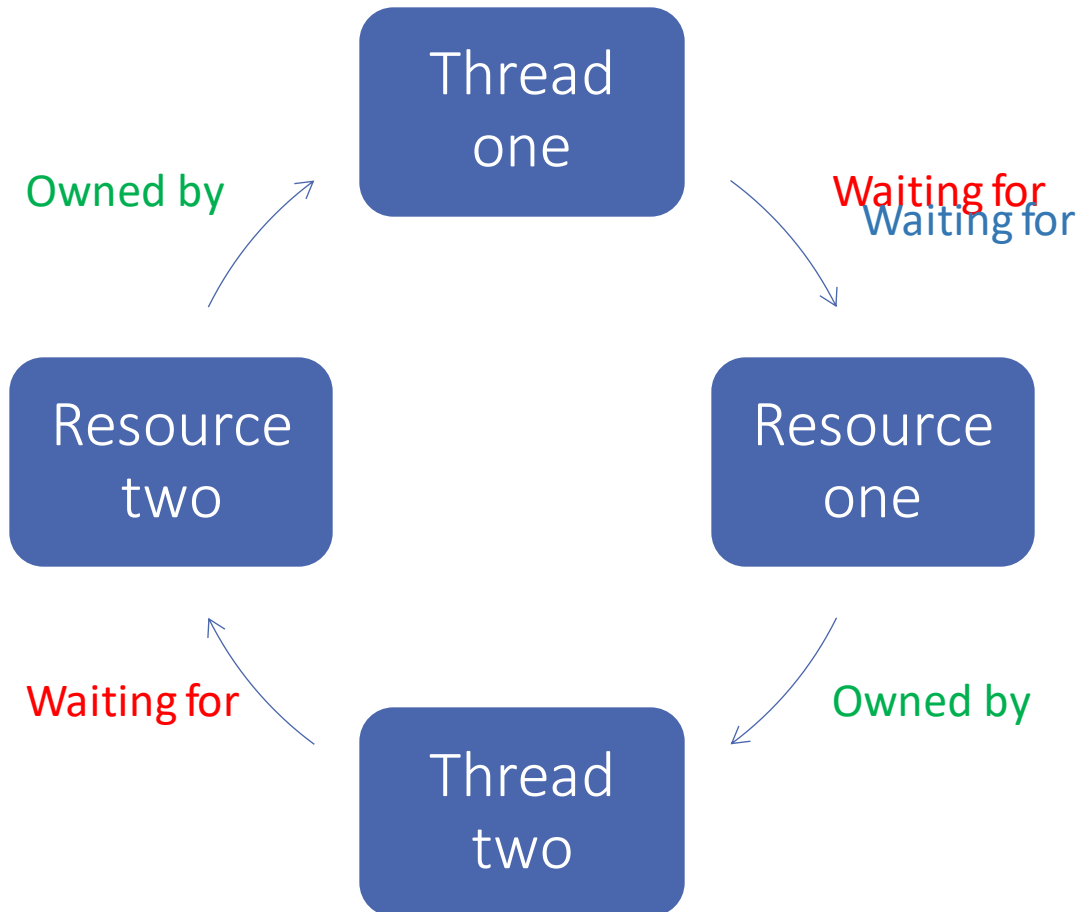


Semaphores / Cond var

Like mutex but multiple thread can pass a wait



Deadlock



The background is an abstract composition of sharp, angular, and overlapping geometric shapes in various shades of blue, ranging from deep navy to bright cyan. The shapes create a sense of depth and movement, resembling a complex crystalline structure or a futuristic architectural design. The lighting is dramatic, with highlights and shadows that emphasize the three-dimensional quality of the forms.

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Demonstration