

threads	idx	function	context	Per_Dead	Rel_Per_D	Per_Dead	Rel_Per_D	Per_Dead	Rel_Per_D	Per_Dead	Rel_Per_D
	arg	stack	stack	next	1	next	1	next	1	next	1
function	arg	function	stack	function	arg	function	stack	function	arg	function	arg
context	stack										
Per_Dead	Rel_Per_D										
	next	1	next								

```
spawn(computePower, 0);
Spawn(computePower, 1);
computePrimes(2);
-----
void spawn(void (* function)(int), int arg)
    thread newp;
    DISABLE();
    if (!initialized)
        initializeThreads();
    newp = dequeue(&freeQ);
    newp->function = function;
    newp->arg = arg;
    newp->next = NULL;
    if (setjmp(newp->context) == 1) {
        ENABLE();
        current->function(current->arg);
        DISABLE();
        enqueue(current, &freeQ);
        dispatch(dequeue(&readyQ));
    }
    SETSTACK(&newp->context, &newp->stack);
    enqueue(newp, &readyQ);
    ENABLE();
}
void yield(void) {
    DISABLE();
    if (readyQ != NULL) {
        thread p = dequeue(&readyQ);
        enqueue(current, &readyQ);
        dispatch(p);
    }
    ENABLE();
}
static void dispatch(thread next) {
    if (setjmp(current->context) == 0) {
        current = next;
        longjmp(next->context, 1);
    }
}
```

~~Pointers~~

struct thread_block initp
thread freeQ
thread readyQ
thread doneQ
thread current



