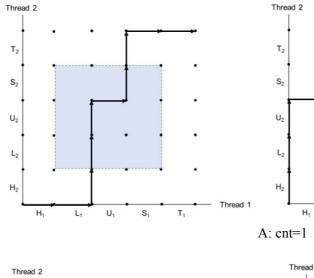
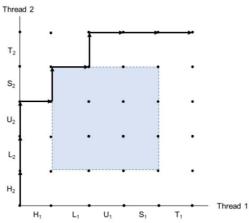
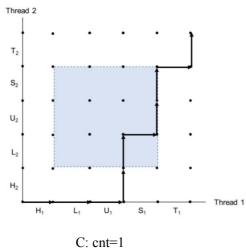
# Homework 11

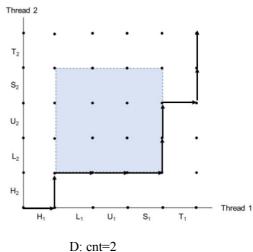
## **Problem 1**





A: cnt=1 B: cnt=2





## **Problem 2**

```
int main() {
pthread_t tid[N];
int i, *ptr;
for (i = 0; i < N; i++) {
   ptr = Malloc(sizeof(int));
   *ptr = i;
   // Create a thread running thread with argument
      ptr
   // Your code here
```

2. Yes. If the free call executed before the newly created thread, then there will be a segmentation fault caused by accessing a freed pointer.

## **Problem 3**

Swap1: not thread-safe, not reentrant Swap2: thread-safe, not reentrant Swap3: thread-safe, reentrant

#### **Problem 4**

Yes. If the program enters the deadlock area, then a deadlock will happen.

