1.
- **Output is 5, final value of x is 5:** b1, a1, a2
- **Output is 5, final value of x is 7:** Not possible
- **Output is 7, final value of x is 5:** Not possible
- **Output is 7, final value of x is 7:** a1, b1, a2

Thread A	Thread B
a1: x = 5 a2: print x	b1: x = 7

Select the order of instructions to satisfy the outcomes in the table below. Select "not possible" if the outcome is not possible.

	Final value of x is 5	Final value of x is 7
Output is 5	[Select] ⌄	[Select] ⌄
Output is 7	[Select] ⌄	[Select] ⌄

2. False. It is determined by other external conditions.

Select all the true statements about the following code. Multiple threads may be executing code using these variables at the same time.

```
// assume all variables are correctly initialized

pthread_mutex_lock(&mutex);
while(num_spaces == 0) {
    pthread_cond_wait(&no_space, &mutex);
}
num_spaces++;
pthread_mutex_unlock(&mutex);
```

Question 2   **1 pts**

num_spaces can not be 0 when pthread_cond_wait returns

○ True

○ False