

6. Exercises

Exercises from the book using [segmentation.py](#):

1. First let's use a tiny address space to translate some addresses. Here's a simple set of parameters with a few different random seeds; can you translate the addresses?

```
segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 0  
segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 1  
segmentation.py -a 128 -p 512 -b 0 -l 20 -B 512 -L 20 -s 2
```

2. Now, let's see if we understand this tiny address space we've constructed (using the parameters from the question above). What is the highest legal virtual address in segment 0? What about the lowest legal virtual address in segment 1? What are the lowest and highest illegal addresses in this entire address space? Finally, how would you run `segmentation.py` with the `-A` flag to test if you are right?