```
* Provisional PGDir and page tables setup
 * for mapping two linear address ranges to the same physical address range
 * + Linear address ranges:
                  User mode: i\times mes_{4M\sim m}(i+1)\times mes_{4M-1}
              - Kernel mode: 3G+i\times \{3M-1\}
 * + Physical address range: $i\times{}4M\sim{}(i+1)\times{}4M-1$
typedef unsigned int PTE;
PTE *pq = pq0; /* physical address of pg0 */
PTE pte = 0 \times 007;   /* 0 \times 007 = PRESENT + RW + USER */
for(i=0;;i++){
 swapper_pq_dir[i] = pq + 0x007;  /* store identity PDE entry */
  swapper_pg_dir[i+page_pde_offset] = pg + 0x007; /* kernel PDE entry */
                        /* populating one page table */
 for (j=0; j<1024; j++) {
   pg[i*1024 + j] = pte; /* fill up one page table entry */
   pte += 0x1000;
                                  /* next 4k */
 if(pte >= ((char*)pq + i*1024 + j)*4 + 0x007 + INIT_MAP_BEYOND_END)
     init_pq_tables_end = pq + i*0x1000 + j;
     break:
```