```
* 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 f_{4M-1}
   *
                - Kernel mode: 3G+i\times mes_{4M\sim_{3G+(i+1)\times mes_{4M-1}}}
   * + Physical address range: i\times f(i+1)\times f(i+1)
11 typedef unsigned int PTE;
12 PTE *pg = pg0; /* physical address of pg0 */
13 PTE pte = 0x007; /* 0x007 = PRESENT+RW+USER */
14 for(i=0;;i++){
swapper_pg_dir[i] = pg + 0x007; /* store identity PDE entry */
   swapper_pg_dir[i+page_pde_offset] = pg + 0x007; /* kernel PDE entry */
   for(j=0;j<1024;j++){
                             /* populating one page table */
   pg[i*1024 + j] = pte; /* fill up one page table entry */
    pte += 0x1000;
                                     /* next 4k */
    if(pte >= ((char*)pg + i*1024 + j)*4 + 0x007 + INIT_MAP_BEYOND_END)
        init_pg_tables_end = pg + i*0x1000 + j;
        break;
```