4.4.1

- memory can be utilized with better efficiency
- avoid external fragmentation
- less input/output
- process is not constrained by the size of physical memory
- easier to share the pages
- increase in overheads due to interrupts and page tables, need longer memory access time

4.4.2

1. P * (TLB access time + memory access time) + (1 - P) * (TLB access time + (k + 1) * memory access time)

so the maximum memory access time is 100 nanoseconds