

$2^2=4$	$2^3=8$	$2^4=16$	$2^5=32$	$2^6=64$	$2^7=128$	$2^8=256$	$2^9=512$	$2^{10}=1024$
2^{10} :Kilo	2^{20} :Mega	2^{30} :Giga	2^{40} :Tera	2^{50} :Peta	2^{60} :Exa	2^{70} :Zetta	2^{80} :Yotta	

- (Prob 7.4, 2 pts)** Consider a logical address space of 64 pages of 1,024 words each, mapped onto a physical memory of 32 frames
 - How many bits are there in the logical address?
 - How many bits are there in the physical address?
- (Prob 7.11, 12 pts)** There are currently six holes of various sizes (shown below in ascending address order).
 A:300K B:600K C:350K D:200K E:750K F:125K
 Five processes (shown in arrival order) of various sizes arrive at a system that uses variable-sized partition memory management. Where would each process be placed under the first-fit, best-fit, and worst-fit algorithms?

Process	First-Fit	Best-Fit	Worst-Fit
1: 115K			
2: 500K			
3: 358K			
4: 200K			
5: 375K			

Homework Chapter 8

1. (**Prob 8.3, 4 pts**): Consider the page table shown in Figure 8.30 for a system with 12-bit virtual and physical addresses and with 256-but pages. (*Read the rest of the question from textbook*)

(Write your answer in hexadecimal)

2. (**Prob 8.6, 3 pts**) An operating system supports a paged virtual memory. The CPU has a cycle time of 1 microsecond, (*Read the rest of the question from textbook*)
3. (**Prob 8.17, 3 pts**) What is the copy-on-write feature (*read the rest of the question from your textbook*)