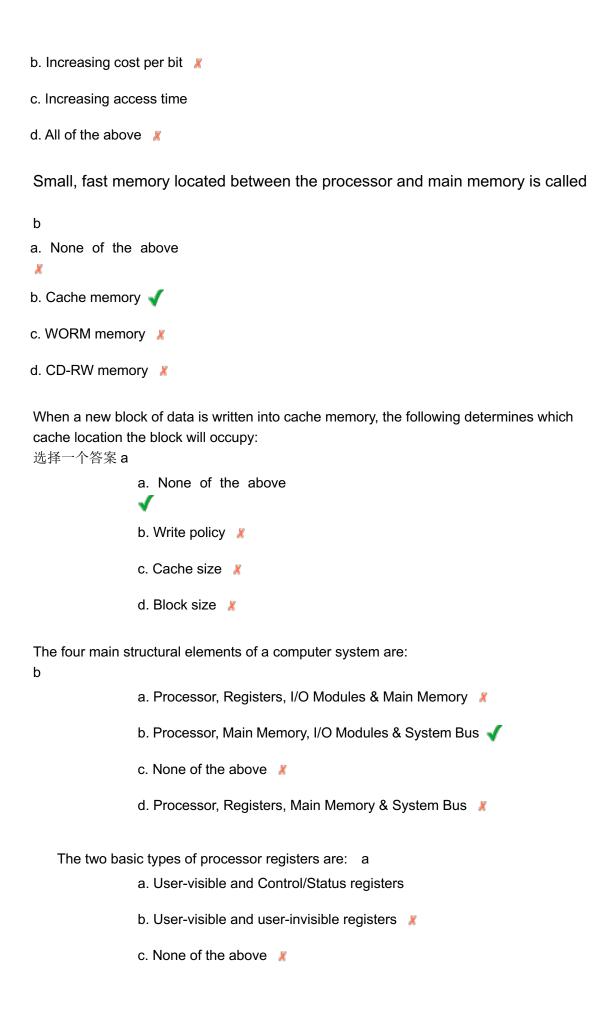
第一章 The general role of an operating system is to:d
a. None of the above 🔏
b. Manage files for application programs 🔏
c. Act as an interface between various computers 🏅
d. Provide a set of services to system users \checkmark
Information that must be saved prior to the processor transferring control to the interrupt handler routine includes: b
a. None of the above 🔏
b. Processor Status Word (PSW) & Location of next instruction
c. Processor Status Word (PSW) 🔏
d. Processor Status Word (PSW) & Contents of processor registers
One accepted method of dealing with multiple interrupts is to:
a. Define priorities for the interrupts \checkmark
b. None of the above 🔏
c. Disable all interrupts except those of highest priority
d. Service them in round-robin fashion 🔏
In a uniprocessor system, multiprogramming increases processor efficiency by:
a. Increasing processor speed 🔏
b. Eliminating all idle processor cycles
c. All of the above 🔏
 d. Taking advantage of time wasted by long wait interrupt handling As one proceeds down the memory hierarchy (i.e., from inboard memory to offline storage), the following condition(s) apply: c
a. Decreasing capacity 🔏



d. Control and Status registers 🔏	
Address registers may contain c	
a. Memory addresses of data 🔏	
b. Memory addresses of instructions	
c. All of the above 🇹	
d. Partial memory addresses 🔏	
A Control/Status register that contains the address of the next instruction to be fetched is called the: c	
a. All of the above 🔏	
b. Program Status Word (PSW)	
c. Program Counter (PC) 🗹	
d. Instruction Register (IR) 🔏	
The two basic steps used by the processor in instruction processing are: c a. Instruction and Execute cycles	
b. Fetch and Instruction cycles 🦹	
c. Fetch and Execute cycles 🇹	
d. None of the above 🔏	
A fetched instruction is normally loaded into the: c a. Program Counter (PC) **	
b. None of the above 🔏	
c. Instruction Register (IR)	
d. Accumulator (AC) 🔏	
A common class of interrupts is: d	
a. Program	
b. I/O 🔏	

c. Timer 🦹
d. All of the above
When an external device becomes ready to be serviced by the processor, the device sends this type of signal to the processor: b
a. None of the above
b. Interrupt signal 🧹
c. Halt signal 🧩
d. Handler signal 🔏
第二章
A primary objective of an operating system is: a
a. All of the above
b. Convenience 🔏
c. Ability to evolve
d. Efficiency 🔏
The paging system in a memory management system provides for dynamic mapping between a virtual address used in a program and:
a. A real address in main memory 🗹
b. None of the above 🤾
c. A virtual address in main memory
d. A real address in a program 🔏
Relative to information protection and security in computer systems, access control typically refers to: d
 a. Proving that security mechanisms perform according to specification
b. None of the above 🔏
c. The flow of data within the system 🔏
d. Regulating user and process access to various aspects of the system \checkmark

A common problem with full-featured operating systems, due to their size and difficulty of the tasks they address,is: d

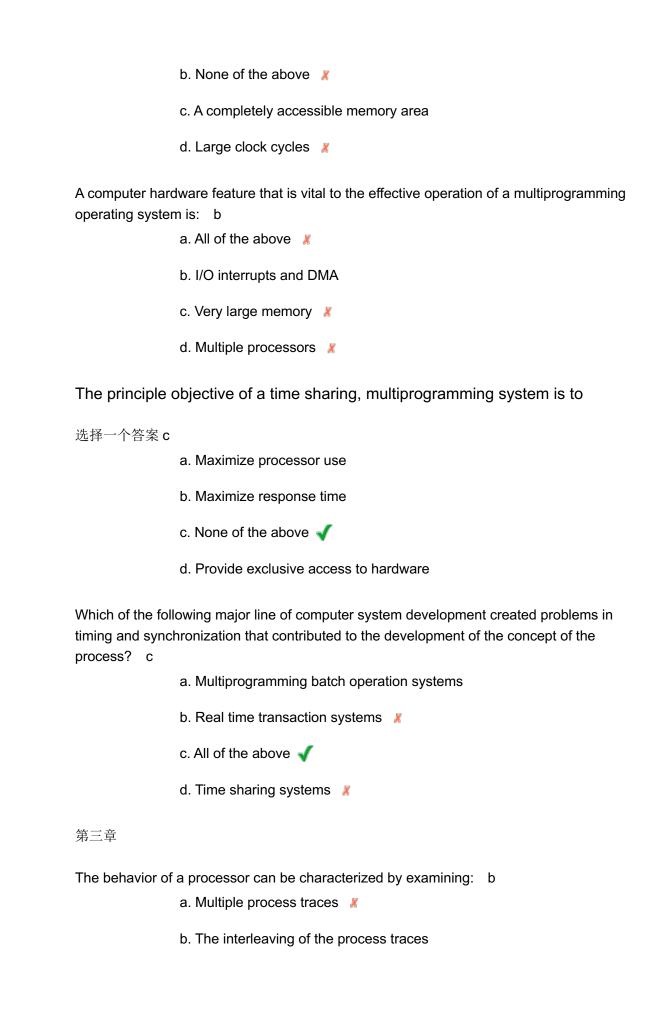
a. Latent bugs that show up i	n the field
b. Chronically late in delivery	×
c. Sub-par performance 🤾	
d. All of the above 🗹	
A technique in which a process, executing an application, is divided into threads that can run concurrently is called: d	
a. None of the above 🥻	
b. Symmetric multiprocessing	(SMP)
c. Multiprocessing 🔏	
d. Multithreading 🗹	
WIN2K supports several types of user applications, including: c	
a. None of the above	
b. Linux 🤾	
c. WIN32 🗸	
d. System 10 🥻	
Key to the success of Linux has been it's character as a free software package available under the auspices of the: c	
a. None of the above 🥻	
b. Berkeley Software Distribu	tion

The operating system provides many types of services to end-users, programmers and

c. Free Software Foundation \checkmark

d. World Wide Web Consortium 🔏

system designers, including: b	
a	a. Built-in user applications 🦹
b	b. Error detection and response
C	c. All of the above 🐰
	d. Relational database capabilities with the internal file system
	stem is unusual in it's role as a control mechanism, in that: cone of the above 🔏
	runs on a special processor, completely separated from the rest of the em $$ $$ $$
	t frequently relinquishes control of the system processor and must end on the processor to regain control of the system \checkmark
d. It	never relinquishes control of the system processor 🔏
Operating systems must evolve over time because a	
а	. New hardware is designed and implemented in the computer system
b	. Hardware must be replaced when it fails 🥻
C	. All of the above 🦹
d	. Users will only purchase software that has a current copyright date 🔏
A major problem with early serial processing systems was: a a. Setup time √	
b	o. Inability to get hardcopy output
C	c. All of the above 🔏
C	d. Lack of input devices 🦹
An example of a hardware feature that is desirable in a batch-processing system is	
a	a. Privileged instructions \checkmark



	d. A single process trace 🔏	
The Process Image element that contains the modifiable part of the user space is called the: a		
进程镜像=PCE	+程序+STACK+可修改的 DATA	
	a. None of the above ✓	
	b. Process Control Block	
	c. System Stack 🔏	
	d. User Program 🥻	
分数: 7/7 The processor execution mode that user programs typically execute in is referred to as: a		
	a. User mode √	
	b. None of the above	
	c. Kernel mode 🔏	
	d. System mode 🐰	
One step in the	e procedure for creating a new process involves: b a. Allocating space for the process #	
	b. All of the above 🗹	
	c. Initializing the process control block	
	d. Assigning a unique identifier 🔏	
A process switch may occur when the system encounters an interrupt condition, such as that generated by a:		
进程切换: T	RAP(异常)+系统调用 +INTERRUPT c	
	a. Trap 🤾	
	b. Supervisor call	

c. All of the above 🦹

- c. All of the above
- d. Memory fault 🧣

##操作系统仅仅是一组程序,并被处理器执行,是进程吗?如何控制它?。。。3 种方法:

无进程的内核

在用户进程中执行(有一组进程切换函数) 常用的 PC 就是这样的基于进程的操作系统

In the Process Based O/S: 基于进程的操作系统

Major kernel functions are organized as separate functions c

- a. The User Process Image includes a kernel stack 🦧
- b. O/S code and data are contained in the shared address space $\boldsymbol{\chi}$
- c. Major kernel functions are organized as separate functions 🗸
- d. None of the above 🔏

UNIX 进程描述:

用户级上下文 进程正文,进程数据

系统级上下文 内核栈

寄存器上下文 程序计数器,处理器状态寄存器

In a typical UNIX system, the element of the process image that contains the processor status information is the:

选择一个答案d

- a. All of the above 🔏
- b. System-level context
- c. User-level context 🔏
- d. Register context \checkmark

The behavior of an individual process can be characterized by examining: a

- a. A single process trace 🗸
- b. Multiple process traces 🚜
- c. The interleaving of the process traces

d. All of the above 🔏 The basic Two-State Process Model defines two possible states for a process in relationship to the processor: a a. Running and Not Running b. None of the above 🔏 c. Executing and Waiting 🔏 d. Running and Executing 🔏 There are a number of conditions that can lead to process termination, including: c a. Bounds violation 🔏 b. Parent termination c. All of the above d. Normal completion 🔏 In the Five-State Process Model, the following represents a valid state transition: c a. All of the above 🔏 b. New -> Running 🔏 c. Running -> Blocked d. New -> Blocked 🔏 In a Process Model that implements two suspend states, a valid state transition is represented by: b a. Running -> Ready/Suspend b. All of the above \checkmark c. Ready -> Ready/Suspend 🚜 d. Ready/Suspend -> Ready 🔏

The scheduling strategy where each process in the queue is given a certain amount of time, in turn, to execute and then returned to the queue, unless blocked is referred to as: a

- a. Round-Robin 🎻
- b. All of the above

c. Prioritization 🦹	
d. LIFO 🥻 is an O/S control structure that is used by the O/S to: b a. Manage I/O devices	
b. None of the above √	
c. Manage processes 🔏	
d. Provide information about system files	
结构: =表,跟踪主存,辅存 表 文件表 进程表	
PCB,进程映像。。	
process in an operating system embodies two primary characteristics, b	
a. None of the above 🐰	
b. Resource ownership	
c. Multithreading 🤾	
d. Symmetric multiprocessing	
Early operating systems that were designed with little concern about structure are typically referred to as: b	
a. Kernel operating systems 🔏	
b. Monolithic operating systems	
c. Layered operating systems 🥻	
d. All of the above 🔏 nicrokernel organization is: c a. Flexibility 🤏	
b. Portability 🚜	
c. All of the above	
d. Extensibility 🦹	

In low-level microkernel memory management, an example of an operation that can support external paging and virtual memory management is the: b

低级存储器管理:

提供一组**3**个微内核操作,用于支持内核 外的分页和虚存管理: 授权, 映射, 刷新

- a. Flush operation
- b. All of the above
- c. Grant operation
- d. Map operation 🔏

In a W2K system, the state that a thread enters when it has been unblocked and the resource for which it has been blocked is not yet available is called the: c

- a. Waiting state 🔏
- b. Standby state 🔏
- c. Transition state
- d. None of the above

分数: 7/7

In a Solaris system, a User-Level Thread (ULT) that enters the active state is assigned to b

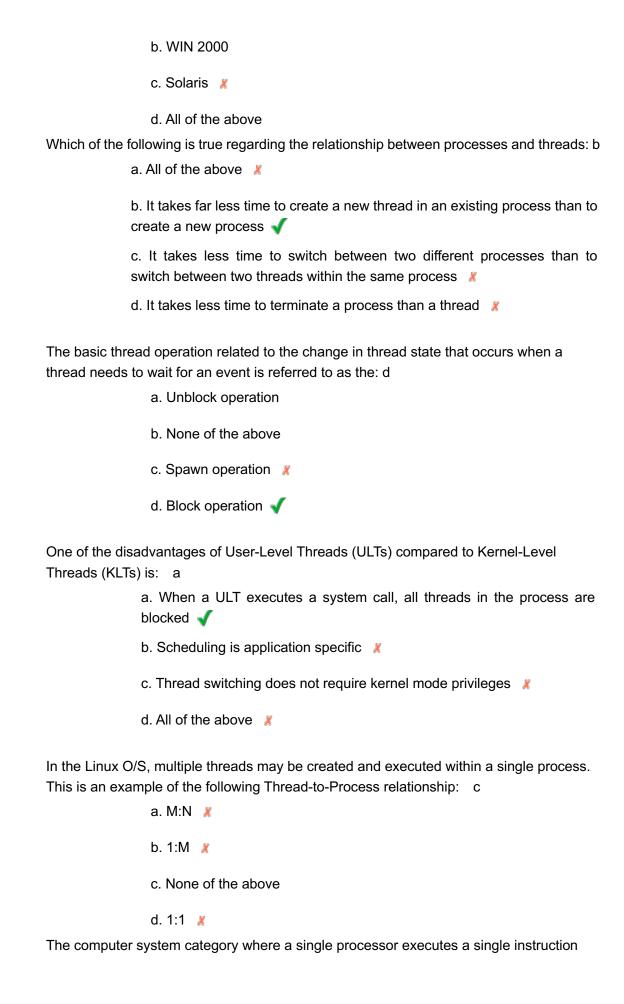
- a. None of the above 🔏
- b. Light-Weight Process (LWP) \checkmark
- c. Heavy-Weight Process (HWP)
- d. Kernel thread 🔏

In a Linux system, when a new process is cloned, the two processes share the same: a

- a. Virtual memory 🎻
- b. Process identifier
- c. All of the above 🔏
- d. task_struct data structure

An example of a system that implements a single process with multiple threads is: a

a. Java 🎻



stream to operate on data stored in a single memory is called: a	
a. Single Instruction Single Data (SISD) stream 🗹	
b. Multiple Instruction Single Data (MISD) stream	
c. Single Instruction Multiple Data (SIMD) stream	
d. None of the above 🔏	
In a SMP system, each processor maintains a local cache and must alert all other processors that a change to cache update has taken place. This is referred to as the a. Cache coherency problem √	
b. Synchronization mechanism problem	
c. Interconnection mechanism problem 🔏	
d. None of the above 🔏	
Key issues involved in the design of multiprocessor operating systems include: b a. Scheduling 🚜	
b. Synchronization 🔏	
c. Reliability and fault tolerance 🔏	
d. All of the above √ 第五章	
Which of the following major line of computer system development created problems in timing and synchronization that contributed to the development of the concept of the process? b	
a. Time sharing systems 🔏	
b. All of the above \checkmark	
c. Real time transaction systems	
d. Multiprogramming batch operation systems	
A primary objective of an operating system is: c a. Ability to evolve	
b. Efficiency 🤾	
c. All of the above	
d. Convenience 🔏	
The paging system in a memory management system provides for dynamic mapping between a virtual address used in a program and: a	

b. A vii	rtual address in main memory
c. Non	e of the above 🔏
	al address in a program 🔏 on protection and security in computer systems, access rs to: a
a. Regu	ulating user and process access to various aspects of the system
b. The	flow of data within the system 🤾
c. Prov	ing that security mechanisms perform according to specification
d. None	e of the above 🧏
difficulty of the tasks a. Chro b. Late c. Sub d. All of A technique in which	with full-featured operating systems, due to their size and they address, is: depointed by the in delivery that show up in the field of the above the above approximate a process, executing an application, is divided into concurrently is called: d
a. Sym	nmetric multiprocessing (SMP)
b. Non	e of the above 🔏
c. Mult	ciprocessing 🗶
	tithreading √ reral types of user applications, including: d
a. Non	e of the above
b. Sys	tem 10 🔏
c. Linu	x <i>X</i>
	I32 √ If Linux has been it's character as a free software package auspices of the: d

a. A real address in main memory \checkmark

b. Berkeley Software Distribution	
c. World Wide Web Consortium 🤾	
d. Free Software Foundation The operating system provides many types of services to end-users, programmers and system designers, including: c a. Relational database capabilities with the internal file system	
b. All of the above 🤾	
c. Error detection and response 🗹	
d. Built-in user applications 🔏	
The operating system is unusual in it's role as a control mechanism, in that: b	
a. It runs on a special processor, completely separated from the rest of th system \mathbb{Z}	
b. It frequently relinquishes control of the system processor and must depend on the processor to regain control of the system \checkmark	
c. It never relinquishes control of the system processor 🧣	
d. None of the above 🔏	
Operating systems must evolve over time because a	
a. New hardware is designed and implemented in the computer system	
b. All of the above 🔏	
c. Hardware must be replaced when it fails 🔏	
d. Users will only purchase software that has a current copyright date A major problem with early serial processing systems was: b a. All of the above #	
b. Setup time √	
c. Inability to get hardcopy output	
d. Lack of input devices 🔏	
An example of a hardware feature that is desirable in a batch-processing system is d	

a. A completely accessible memory area
b. Large clock cycles 🥻
c. None of the above 🙎
d. Privileged instructions \checkmark
A computer hardware feature that is vital to the effective operation of a multiprogramming operating system is: b
a. All of the above 🔏
b. I/O interrupts and DMA
c. Multiple processors 🦹
d. Very large memory 🤾
The principle objective of a time sharing, multiprogramming system is to b
a. Maximize response time
b. None of the above \checkmark
c. Maximize processor use
d. Provide exclusive access to hardware
第六章 The permanent blocking of a set of processes that either compete for system resources or
communicate with each other is called: c
a. All of the above
b. Prioritization 🔏
c. Deadlock 🇹
d. Starvation 🔏
In deadlocked process recovery, selection criteria for choosing a particular process to abort or rollback includes designating the process with the: b
a. Least total resources allocated so far
b. All of the above 🗸
c. Most estimated time remaining 🚜
d. Lowest priority 🔏
One approach to an integrated strategy for dealing with deadlocks involves the

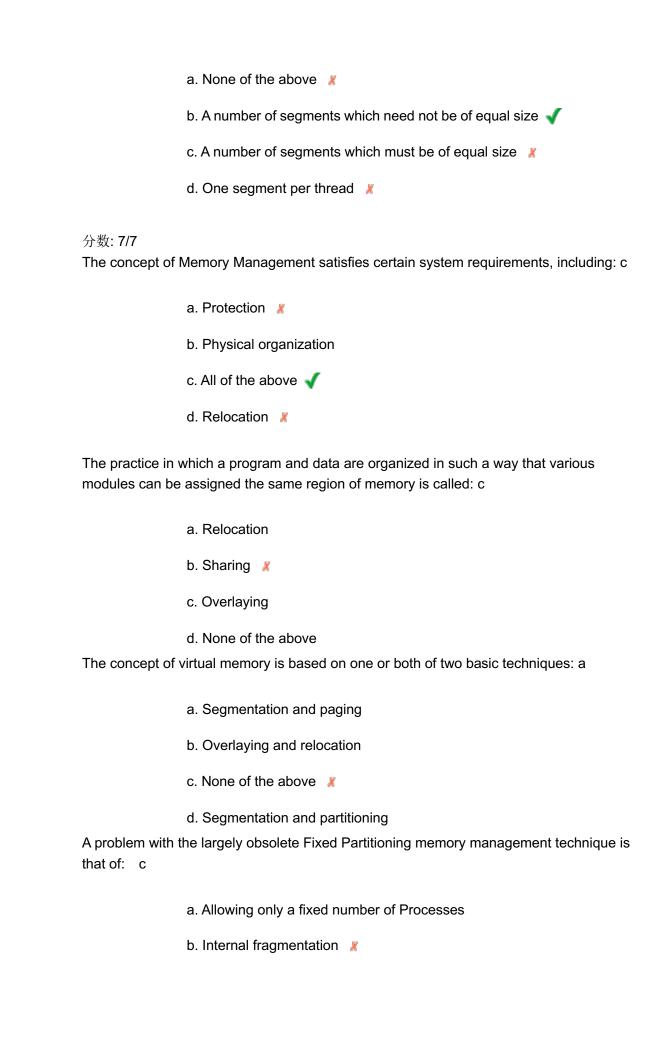
implementation of: d		
	a. Virtual memory 🔏	
	b. Process rollbacks	
	c. None of the above	
	d. Resource classes √	
The Dining Philo implementing: d	osopher's Problem is a standard test case for evaluating approaches to	
	a. Starvation 🔏	
	b. Deadlock 🔏	
	c. All of the above	
	d. Synchronization	
A software mechanism that informs a process of the occurrences of asynchronous events in UNIX are called: a		
	a. Signals	
	b. Messages	
	c. Pipes 🔏	
	d. All of the above	
Thread synchronization primitives supported by Solaris include:b		
	a. Semaphores 🔏	
	b. All of the above \checkmark	
	c. Mutual exclusion (mutex) locks	
	d. Condition variables 🔏	
The family of synchronization objects implemented by W2K include: b		
	a. Mutex objects 🔏	

	c. Event objects 🔏
	d. Semaphore objects
All deadlocks in	volve conflicting needs for resources by: a
	a. Two or more processes \checkmark
	b. Three or more processes
	c. One or more processes 🔏
	d. None of the above 🐰
A resource that	can be created and destroyed is called a: d
	a. Reusable resource 🔏
	b. Producible resource
	c. All of the above 🥻
	d. Consumable resource ✓
An example of a	consumable resource is the following: b
	a. Printers 🔏
	b. Messages 🗸
	c. All of the above
	d. Main Memory 🔏
A condition of policy that must be present for a deadlock to be possible is: c	
	a. Hold and wait 🐰
	b. Mutual exclusion
	c. All of the above \checkmark
	d. No preemption 🔏
A direct method	of deadlock prevention is to prevent the occurrence of: b

b. All of the above

a. Hold and wait 🦹	
b. Circular wait 🗹	
c. All of the above	
d. Mutual exclusion 🔏	
In the Resource Allocation Denial approach to Deadlock Avoidance, a safe state is defined as one in which: b	
a. All potential process sequences do not result in a deadlock: 🤾	
b. At least one potential process sequence does not result in a deadlock	
c. None of the above 🔏	
d. Several potential process sequences do not result in a deadlock: A conservative strategy for dealing with deadlocks that involves limiting access to resources and imposing restrictions on processes is called: a	
a. Deadlock Prevention	
b. None of the above 🔏	
c. Deadlock Avoidance	
d. Deadlock Detection 🔏	
第七章 The task of subdividing memory between the O/S and processes is performed automatically by the O/S and is called: a	
a. Memory Management	
b. Relocation 🔏	
c. All of the above 🦹	
d. Protection 🔏	
A reference to a memory location independent of the current assignment of data to memory is called a :: c	
a. Relative address 🔏	
b. None of the above	

	c. Logical address	
	d. Absolute address 🔏	
An actual location	on in main memory is called a ि: b	
	a. Logical address 🔏	
	b. Absolute address	
	c. Relative address 🔏	
The page table	d. None of the above 🔏 for each process maintains: d	
	a. The physical memory location of the process 🔏	
	b. The page location for each frame of the process	
	c. None of the above 🔏	
In a system emp to: d	d. The frame location for each page of the process \checkmark bloying a paging scheme for memory management, wasted space is due	
	a. None of the above 🤾	
	b. Pages and frames of different specified sizes	
	c. External fragmentation 🥻	
	d. Internal fragmentation	
In a system employing a segmentation scheme for memory management, wasted space is due to: d		
	a. Segments of different sizes	
	b. None of the above 🔏	
	c. Internal fragmentation 🔏	
In a system emp	d. External fragmentation √ bloying a segmentation scheme for memory management, a process is	



C. /	All of the above √
d.	Inefficient use of memory 🔏
·	rnal fragmentation can be lessened in systems employing a ory management scheme by using: a
a.	Unequal size partitions
b.	Equal size partitions 🤾
c.	Random size partitions
d.	None of the above 🔏
-	titioning technique of memory management, the phenomenon that ocks of memory outside of existing partitions is called: b
a.	None of the above 🐰
b.	External fragmentation
C. (Compaction 🔏
d.	Internal fragmentation 🐰
-	titioning technique of memory management, the placement algorithm ock that is closest in size to the request is called: a
a.	Best-fit √
b. <i>i</i>	All of the above
с.	Next-fit 🔏
d.	First-fit 🔏
that scans memory	titioning technique of memory management, the placement algorithm from the location of the last placement and chooses the next available bugh to satisfy the request is called: a
a.	Next-fit √
b. <i>i</i>	All of the above
с.	Best-fit 🗶
d.	First-fit 🗶
第八章	
The type of memory	y that allows for very effective multiprogramming and relieves the user

of memory size constraints is referred to as: b

- a. Real memory
- b. Virtual memory
- c. Main memory
- d. All of the above

The replacement policy that is impossible to implement because it would require the O/S to have perfect knowledge of future events is called the: a

- a. Optimal policy
- b. None of the above
- c. Least recently used (LRU) policy
- d. Clock policy

The replacement policy that chooses only among the resident pages of the process that generated the page fault in selecting a page to replace is referred to as a: c

- a. None of the above 🔏
- b. Variable replacement policy
- c. Local replacement policy \checkmark
- d. Global replacement policy 🔏

The concept associated with determining the number of processes that will be resident in main memory is referred to as: c

- a. Load Control 🚜
- b. A cleaning policy 🔏
- c. The page fault frequency
- d. None of the above 🔏

In SVR4 and Solaris systems, the memory management scheme that manages user processes and disk I/O is called the: c

a. Virtual memory manager

b.	None of the above 🔏
C.	Paging system √
d.	Kernel memory allocator 🔏
	mory management scheme implemented in Linux was designed to ge tables and directories in which of the following line of processors: c
a.	None of the above 🔏
b.	32-bit Pentium/X86 architecture
C.	64-bit Alpha architecture
d.	16-bit X86 architecture 🔏
The Windows 2000	O virtual memory manager can use page sizes ranging from: d
a.	4 GB to 4 TB 🔏
b.	64 KB to 4 GB 🔏
C.	None of the above
d.	4 KB to 64 KB √
	e the processor spends most of its time swapping process pieces rather tructions is called: a
a.	Thrashing
b.	Paging X
C.	The Principle of Locality
d.	None of the above 🔏
The situation that of Lookaside Buffer (*	occurs when the desired page table entry is not found in the Translation TLB) is called a: a
a.	TLB miss
b.	Page fault 🤾
C.	None of the above
d.	TLB hit 🗶
The real addrest	ss of a word in memory is translated from the following portions of a

virtual address:	
	a. Frame number and offset 🔏
	b. None of the above 🔏
	c. Page number and frame number
	d. Page number and offset \checkmark
Segmentation ha address space, i	as a number of advantages to the programmer over a non-segmented ncluding: c
	a. Sharing among processes 🔏
	b. Simplifying the handling of growing data structures
	c. All of the above \checkmark
	d. Protection 🔏
In a combined pumber of: a	paging/segmentation system, a user's address space is broken up into a
a. Variable-	sized Segments, which are in turn broken down into fixed-size pages 🗸
b. Segment	ts or pages, at the discretion of the programmer 🧣
c. All of the	above 🔏
	e pages, which are in turn broken down into variable-sized segments 🗶 ved in a segmentation system by: b
a. Each process	segment table having a reference to the dispatcher main memory area 🧩
b. Referencing a	segment in the segment tables of more than one process
c. Having a comr	non data area that all processes can share 🦹
d. All of the above A fundamental cl	e 🥻 hoice in the design of the memory-management portion of an O/S is:
选择一个答案 a	
6	a. All of the above
ŀ	b. The algorithms employed for various aspects of memory management

c. Whether or not to use virtual memory techniques 🔏		
d. Whether to use paging, segmentation of a combination of the two 🔏		
选择一个答案 d		
a. None of the above		
b. Swapping 🔏		
c. Demand paging 🤾		
d. Prepaging 🧹		
第九章 The type of scheduling that involves the decision to add a process to those that are at least partially in main memory and therefore available for execution is referred to as: d		
a. I/O scheduling 🔏		
b. None of the above 🔏		
c. Long-term scheduling		
d. Medium-term scheduling		
One difficulty with the Shortest Process Next (SPN) scheduling technique is:		
a. The lack of preemption 🔏		
b. The need to know or estimate required processing times for each process		
c. The starvation of longer processes 🚜		
d. All of the above ✓ One difficulty with the Shortest Remaining Time (SRT) scheduling technique is: c		
a. The lack of preemption 🔏		
b. The starvation of shorter processes 🔏		
c. The need to know or estimate required processing times for each process \checkmark		
d. All of the above 🚜 Which of the following scheduling policies require prior knowledge or estimation of		

process length:	С
	a. Highest Response Ratio Next (HRRN)
	b. Shortest Remaining Time (SRT) 🔏
	c. All of the above \checkmark
It is impossible to dependence on	d. Shortest Process Next (SPN) <a> I o make definitive comparisons of various scheduling policies due to factors such as: b
	a. The nature of the I/O demand and performance of the I/O subsystem
	b. All of the above
	c. The efficiency of the scheduling and context switching mechanisms
	d. The probability distribution of service times of the various processes 🕺 t schedules processes based on their group affiliation is generally
referred to as:	
	a. All of the above 🔏
	b. Fair share scheduling
	c. Simulation modeling 🔏
d. Queuing analysis 🔏 The traditional UNIX scheduler divides processes into fixed bands of priority levels, with the highest priority band being the: a	
	a. Swapper band ◀
	b. File manipulation band
	c. User process band 🥻
The decision as following criteria	d. None of the above 🔏 to which job to admit to the system next can be based on which of the : c
	a. Simple FIFO 🔏
	b. I/O requirements

	c. All of the above 🇹	
	d. Priority 🚜	
Typically, the sw	vapping-in function for processes is based on the need to manage: c	
	a. Process priorities 🐰	
	b. Virtual memory 🔏	
	c. The degree of multiprogramming	
	d. None of the above 🔏	
In terms of frequexecutes: a	uency of execution, the short-term scheduler is usually the one that	
	a. Most frequently	
	b. None of the above	
	c. Least frequently 🔏	
Response time	d. About the same as the other schedulers in an interactive system is an example of: a	
	a. User-oriented criteria for short-term scheduling policies	
	b. System-oriented criteria for long-term scheduling policies 🔏	
	c. System-oriented criteria for short-term scheduling policies	
	d. None of the above 🔏	
A typical way to overcome starvation of lower-priority processes in a priority-based scheduling system is to: d		
	a. Change a process priority randomly 🤾	
	b. Round-robin cycling of processes in a priority queue	
	c. All of the above 🔏	
	d. Change a process priority with its age √ lowing scheduling policies allow the O/S to interrupt the currently running ove it to the Ready state? c	

	b. Non-Preemptive 🚜
	c. Preemptive
	d. None of the above 🤾 queuing model, the total time that a process spends in a system (waiting e time) is called: a
	a. Turnaround or residence time (TAT)
	b. Normalized turnaround time (TAT) 🔏
	c. Finish time (FT) 🔏
In the Round Ro	d. None of the above 🔏
	a. Determining the length of the time quantum \checkmark
	b. Determining the method of cycling through a given set of processes
	c. None of the above 🔏
	d. Determining the fair distribution of time quanta to individual processes
第十章 An example of t devices is: b	he key differences that can exist across (and even in) classes of I/O
a. Data rate 🥻	b. All of the above ✓ c. Data representation d. Error conditions 🗶
_	sk scheduling policy is useful as a benchmark against which to evaluate duling policies because it provides a worst-case scenario: c
a. FIFO schedul	ing b. None of the above c. Random scheduling 🧹 d. Priority scheduling 🦼
	uling algorithm that implements two subqueues in a measure to avoid the stickiness" is the: c
a. All of the abo Which of the fol redundancy: c	lowing RAID levels implement some form of parity calculation to introduce
a. RAID Level 6	

a. First-come-first-served

The disk cache replacement strategy that replaces the block that has experienced the fewest references is called: d

a. Least Recently Used (LRU)	
b. All of the above 🗶	
c. Least Referenced (LR) 🔏	

d. Least Frequently Used (LFU) 🗸

In a UNIX system, which of the following types of I/O devices make use of character queues: c

- a. Tape drive 🧣
- b. All of the above 🔏
- c. Communications lines
- d. Disk drive 🦹

In a W2K system, the I/O manager module that includes lazy write and lazy commit services to improve overall performance is the: c

- a. Hardware device drivers
- b. None of the above 🔏
- c. Cache manager 🎻
- d. File system drivers 🔏

p>The I/O technique where the processor busy waits for an I/O operation to complete is called: c

- a. Interrupt-driven I/O 🔏
- b. Direct memory access (DMA)
- c. Programmed I/O \checkmark
- d. None of the above 🔏

The system configuration that includes an I/O module which is a separate processor with a specialized instruction set can be referred to using the following terminology: c

a. I/O Processor	b. I/O Channel 🤾 c. All of the above 🗸 d. Direct Memory Access (DMA)	
The bus configuration for DMA that provides no path other than the system bus between the DMA module(s) and I/O devices is: d		
	a. None of the above 🙎	
	b. I/O bus 🗶	
	c. Single bus, integrated DMA-I/O	
	d. Single bus, detached DMA 🇹	
	objective in designing the I/O facility of a computer system that deals with ndle all I/O devices in a uniform manner is referred to as: c	
	a. Directory management	
	b. Efficiency 🔏	
	c. Generality	
	d. None of the above 🐰	
In a hierarchical structure for managing I/O on a secondary storage device that supports a file system, the layer that is closest to the hardware is the: a		
	a. None of the above \checkmark	
	b. Physical organization layer 🦹	
	c. Directory management layer	
	d. Device I/O layer 🔏	
An example of a	a block-oriented I/O device is: c	
	a. Printer 🚜	
	b. Modem 🚜	
	c.CD-ROM	
	d. All of the above	
The scenario where multiple buffers are used in an attempt to alleviate the problem of absorbing rapid bursts of I/O is typically referred to as: a		
	a. Circular buffering	

	b. Double buffering 🔏
	c. Single buffering 🔏
	d. None of the above 🔏
第十一章	
A file is generally	y defined to be: b
	a. A basic element of data 🥻
	b. A collection of similar records
	c. A collection of related fields 🔏
	d. All of the above 🔏
Fixed file blockir	ng experiences the following potential problem: a
	a. Internal fragmentation
	b. Gaps due to hardware design
	c. None of the above 🔏
	d. External fragmentation 🔏
In which of the fo	ollowing file allocation methods is preallocation required: a
	a. Contiguous
	b. Indexed 🔏
	c. Chained 🔏
	d. None of the above
The technique o each free portion	f free disk space management that employs a pointer and length value of n is the: d
	a. Free block list
	b. Indexing 🔏
	c. Bit tables 🚜
	d. None of the above
The data structu	re that maintains information on available disk space is called the: b

a. Bit Table 🦹		
b. Disk Allocation Table	/	
c. None of the above 🧣		
d. File Allocation Table (F	AT) 🔏	
File allocation in a UNIX system has the following characteristics: a		
a. Dynamic allocation usi	ng non-contiguous blocks with indexing	
b. None of the above 🥻		
c. Preallocation using no	n-contiguous blocks without indexing 🥻	
d. Dynamic allocation using contiguous blocks without indexing In a W2K NTFS file system, the smallest physical storage unit on the disk (almost always 512 bytes) is called a: a		
a. Sector 🗹		
b. None of the above		
c. Volume 🤾		
d. Cluster 🤾		
The level of the file system architecture that enables users and applications to access file records is called the: d		
a. Basic file system level	X	
b. Basic I/O supervisor le	vel	
c. All of the above 🥻		
d. Logical I/O level 🎻		
Record access in a pile file can be conducted by: d		
a.Key field 🦹		
b. Partial index 🥻		
c. All of the above		

	d. Exhaustive search
Sequential files	are optimal in scenarios involving: c
	a. Applications that require infrequent updates 🔏
	b. All of the above 🔏
	c. Applications that require the processing of all records in the file
Indexed sequent	d. Applications that require frequent queries <a>
	a. All of the above 🔏
	b. File index and overflow file \checkmark
	c. Hash function and file index
Direct or backed	d. Hash function and an overflow file I files are often used where: d
Direct of Hashed	r mes are orien used where. d
	a. Very rapid access is required 🔏
	b. Fixed length records are used 🔏
	c. Records are always accessed one at a time
	d. All of the above \checkmark
The file directory creator of the file	v information element that holds information such as the identity of the e is the: d
	a. Access control information element
	b. Address information element 🔏
	c. All of the above 🔏
	d. Usage information element \checkmark
In a tree-structur	red directory, the series of directory names that culminates in a file name the: a
	a. Pathname √
	b. None of the above

- c. Symbolic name 🥻
- d. Working directory 🔏

Access rights on a file typically are considered to constitute a hierarchy, with each right implying those that: d

- a. Succeed it 🔏
- b. None of the above
- c. Supercede it 🚜
- d. Precede it 🗸