

X - XYZZYVaulsMorg A-ATZZY Aneka Soal Ujian Sistem Operasi Rahmat M. Samik-Ibrahim et al Rahmat M. Samik-Ibrahim et.al.

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1. True or False?

Circle or cross: "T" if True – "F" if False.

\$ ls -al dr-x--x-x 2 demo demo 4096 Oct 17 17:06 tmp T / F All users can enter directory "tmp/".
T / F
$$2+2=3$$

2. Answer these following questions

- (a) What is your name?
- (b) When is your birthday?

3. Fill the remaining empty "output" cells

Script	Output
echo "1 2 3 4 5" awk '{print \$1 " " \$5}'	
echo \abc" tr '[a-z]' '[A-Z]'	

4. **2016-2**

Page Table (Waterloo 2012). Consider this following "structure addrspace" of a 32-bit processor.

```
struct addrspace {
  vaddr_t as_vbase1
                        = 0x00100000; /* text segment: virtual base addr */
  paddr_t as_pbase1
                        = 0x10000000; /* text segment: physical base addr */
  size_t as_npages1
                                      /* text segment: number
                                                                 of pages */
                        = 0x20;
  vaddr_t as_vbase2
                        = 0x00200000; /* data segment: virtual base addr */
                        = 0x20000000; /* data segment: physical base addr */
  paddr_t as_pbase2
  size_t as_npages2
                        = 0x20;
                                      /* data segment: number
                                                                 of pages */
  vaddr_t as_vbase3
                        = 0x80000000; /* stack segment: virtual base addr */
  paddr_t as_pbase3
                        = 0x80000000; /* stack segment: physical base addr */
};
```

When possible, translate the provided address.

Possible	Virtual Address	Physical Address	Segment
YES	0x0010 0000	0x1000 0000	text
	0x 0 010 FEDC		
	0x0011 0000		

5. **2016-2**

(a) Fill this following with "ASP" (Application Software Provider) or "SaaS" (Software as a Service)

a separate instance of the application is maintained for each business
always Up-to-Date for the whole service
closer to Legacy Software
lacks scalability for the vendor
supports multi-tenancy (multiple customers)

(b) There exists four (4) identical processes, with this following CPU utilization table:

	Multiprogramming Combination (%)			
	A	A + A	A + A + A	A + A + A + A
CPU utilization per proses A	10	9.5	9	8.6

The CPU time of each processes is 43 seconds Print the output when the system runs: How long will be the total time to run concurrently all (4) processes together?!