Quiz B Pipes and Mutex (BONUS)

Due No due date   **Points** 8   **Questions** 8   **Time Limit** 10 Minutes
Allowed Attempts Unlimited

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Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	5 minutes	5 out of 8

⚠ Correct answers are hidden.

Submitted May 25 at 10:06pm

Question 1	**1 / 1 pts**

Is there a problem with this mutex? Which one if yes?

Global/Shared: int f=1;

P1:

f=1;

if(f==1) do_critical_section();

f = 0;

P2:

if(f==0) do_critical_section();

◉   Not exclusive in critical section and deadlock problem

○   Deadlock problem

○ Not exclusive in critical section

○ All fine, seriously.

Question 2   1 / 1 pts

Is there a problem with this mutex? Which one if yes?

Global/Shared: int f=1;

P1:

f=0;

if(f==1) do_critical_section();

P2:

f =1;

if(f==0) do_critical_section();

◉ Deadlock problem

○ All fine, seriously.

○ Not exclusive in critical section

○ Not exclusive in critical section and deadlock problem

Incorrect

Question 3   0 / 1 pts

Is there a problem with this mutex? Which one if yes?

Global/Shared: int f=1; int p1_attempt = 0; int p2_attempt = 0;

P1:

p1_attemp=1; t f=0;

if(f==1 && p2_attempt ==1) do_critical_section();

P2:

p2_attemp=1; f =1;

if(f==0 && p1_attempt ==1) do_critical_section();

◉ All fine, seriously.

○ Not exclusive in critical section and deadlock problem

○ Not exclusive in critical section

○ Deadlock problem

Incorrect

Question 4   **0 / 1 pts**

int fd[2]; pipe(fd);

P1:

write(fd[1],"hello",6);

write(fd[1],"world",6);

P2:

char text[100];

read(fd[0],text,20);

printf("%s\n",text);

//What will be printed?

○ helloworld

○ world

○ hello

◉ that will not work!

Question 5   1 / 1 pts

int fd[2]; pipe(fd);

P1:

write(fd[0],"hello\0world",20);

P2:

char text[100];

read(fd[1],text,20);

printf("%s\n",text);

//What will be printed?

○ world

○ hello

○ helloworld

◉ that will not work!

Question 6   1 / 1 pts

int fd[2]; pipe(fd)

P1:

write(fd[1],"helloworld",20);   close(fd[0]);close(fd[1]);

P2:

char text[100];

close(fd[1]);

dup2(fd[0],STDIN_FILENO);

close(fd[0]);

scanf("%s",text);

printf("%s\n",text);

//What will be printed?

- ⦿ helloworld

- ◯ world

- ◯ hello

- ◯ whatever the user inputs (keyboard)

Incorrect   **Question 7**   **0 / 1 pts**

int fd[2]; pipe(fd);

P1:

write(fd[1],"helloworld",20);   close(fd[0]);close(fd[1]);

P2:

char text[100];

close(fd[1]);

```
int y = dup(fileno(stdin));

dup2(fd[0],STDIN_FILENO);

close(fd[0]);

dup2(y,STDIN_FILENO);

scanf("%s",text);

printf("%s\n",text);

//What will be printed?
```

○ hello

◉ helloworld

○ whatever the user inputs (keyboard)

○ world

Question 8   1 / 1 pts

```
int fd[2]; pipe(fd);
```

P1:

```
write(fd[1],"helloworld",20);    close(fd[0]);close(fd[1]);
```

P2:

```
char text[100];

close(fd[1]);

int y = dup(fileno(stdin));

dup2(fd[0],STDIN_FILENO);

close(fd[0]);

dup2(STDIN_FILENO,y);
```

```
scanf("%s",text);

printf("%s\n",text);

//What will be printed?
```

○ whatever the user inputs (keyboard)

◉ helloworld

○ world

○ hello