## Answer Submitted.

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## Course outline

About NPTEL

()

How does an NPTEL online course work?

Week 0 ()

Practice: Week 0 : Assignment 0 (assessment? name=171)

## Week 0: Assignment 0

Your last recorded submission was on 2025-01-19, 16:59 IST

```
What will be the output of the following C code?
#include <stdio.h>
int increment(int *x) {
    return *x++;
}
int main() {
    int arr[] = {10, 20, 30};
    int temp = increment(&arr[0]);
    printf("%d", temp);
    return 0;
a. 10
b. 11
c. 20
d. 21
```

- <u>О</u> а.
- Оb.
- O c.
- $\bigcirc \, \mathsf{d}.$

1 point

• Assignment 0
Solution (unit?
unit=16&lesson
=153)

Week 1 ()

Week 2 ()

Download Videoes ()

Yes, the answer is correct. Score: 1
Accepted Answers:
a.
2) 1 point
Which of the following scheduling algorithms can lead to starvation in an operating system?
a. Round-robin
b. Shortest Job Next (SJN)
c. Priority scheduling
d. None of the above
□ a.
<b>☑</b> b.
<b>✓</b> c.
□ d.
Yes, the answer is correct.
Score: 1
Accepted Answers: b.
ы. С.
<b>.</b>
3) <b>1 point</b>
Which of the following system calls is used to change the current working directory of a process in a Unix-
based operating system?
a.rmdir()
b. getcwd()
c. mkdir()
d. chdir()
○ a.
○ b.
○ c.
<b>◎</b> d.
Yes, the answer is correct.
Score: 1 Accepted Answers:
d.
4) 1 point

```
Which of the following IP addresses belongs to a private address range?
    a. 172.16.0.1
    b. 192.0.2.1
    c. 203.0.113.10
    d. 10.10.1.1
  ✓ a.
  □ b.
  □ c.
  ✓ d.
Yes, the answer is correct.
Score: 1
Accepted Answers:
a.
d.
5)
                                                                         1 point
  What will be the output of the following C code in a 32-bit/64-bit system?
  #include <stdio.h>
  int main() {
       int arr[10];
       printf("%lu", sizeof(arr));
        return 0;
  }
      a. 10
      b. 100
      c. 40
      d. 4
  ○ a.
  Ob.
  <u>О</u> с.
  \bigcirc d.
Yes, the answer is correct.
Score: 1
Accepted Answers:
C.
6)
                                                                         1 point
```

	nent system that utilizes paging, the address space of a process is divided into fixed.  The equivalent units in physical memory are known as
size times cance	The equivalent dates in physical memory are known as
a. Segments, Blo	
b. Frames, Pages	
<ul> <li>Pages, Frames</li> <li>Pages, Segmer</li> </ul>	
d. Pages, Segmen	115
○ a.	
○ b.	
<u></u> с.	
○ d.	
Yes, the answer is of Score: 1	correct.
Accepted Answers: c.	
7)	1 point
Which of the followin	g statements about virtual memory in an operating system are true?
a. Virtual memor	ry allows a process to use more memory than is physically available.
	y uses disk space to simulate additional RAM.
c. In a system wi	th virtual memory, all processes are allocated the same amount of physical memory.
d. Virtual memor	y eliminates the need for paging.
<mark>✓</mark> a.	
<mark>☑</mark> b.	
□ c.	
□ d.	
Yes, the answer is o	correct.
Accepted Answers:	
a.	
b.	
8)	1 point
Which of the following	ing pairs correctly match network services with their associated port numbers?
a. Port 443 - H7	TTPS and Port 22 - FTP
b. Port 22 - FTF	P and Port 53 - DNS
c. Port 80 - HT	TP and Port 21 - FTP
d. Port 443 - H7	TTPS and Port 53 - Telnet
○ a.	
○ b.	
<b>o</b> c.	
○ d.	

Score: 1	
Accepted Answers:	
C.	
9) <b>1 point</b>	
To keep a hash table in memory and save it to a file for later use, which of the following combinations is correct?	
<ul> <li>a. malloc() to allocate memory and fork() to store data.</li> <li>b. calloc() to allocate memory and read() to retrieve the data.</li> <li>c. malloc() to allocate memory and open() to create a file.</li> <li>d. malloc() to allocate memory and write() to store data in a file.</li> </ul>	
○ a.	
○ b.	
○ c.	
Yes, the answer is correct. Score: 1 Accepted Answers: d.	
10) <b>1 point</b>	
You are given the IP address 192.168.0.0/24 and need 6 subnets, each with at least 30 usable IP addresses.	
Which subnet mask should you use?	
a. 255.255.250.240 (/28)	
<ul> <li>a. 255.255.255.240 (/28)</li> <li>b. 255.255.255.224 (/27)</li> </ul>	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26)	
<ul> <li>a. 255.255.255.240 (/28)</li> <li>b. 255.255.255.224 (/27)</li> </ul>	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26)	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)	
a. 255.255.255.240 (/28) b. 255.255.255.254 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)  a. b. c.	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)  a.  b.  c.  d.  Yes, the answer is correct.	
a. 255.255.255.240 (/28) b. 255.255.255.224 (/27) c. 255.255.255.192 (/26) d. 255.255.255.248 (/29)  a. b. c. d.  Yes, the answer is correct. Score: 1  Accepted Answers:	