

## Assignment 8.

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Q1. → what mean by virtual address?  
it is binary number in virtual memory that lets a process use a location in primary storage & in some cases, secondary storage.

Q2. →  
`int arr[4] = {10, 20, 30};`  
`int n0 = 2;`

- ① `arr[0] = 10;`
- ② `arr[n0] =`
- ③ `arr[3-1] = 20;`
- ④ `arr = 10;`
- ⑤ `arr+1 = 20;`
- ⑥ `arr+3 = 0;`
- ⑦ `arr[4] = 0;`

Q3. → what is use of (address of) operator?  
① also called as pointer.  
② it is denoted by '&'.  
③ This used to unary operator.  
④ The purpose of this address operator or pointer is used to return the address of the variable.

Q4.



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Q6. what is mean by address space of process  
→ an address space is a range of valid addresses in memory that are available for a program or process

Q7. what is the use of next instruction member of stack frame?  
→ it also maintains a program counter (PC) which points to the next instruction to be executed.  
main part (Csp) stack pointer & (CFP)

Q8. what is mean by linkage of storage class?  
→ The use or availability of a name across multiple translation unit or within a single ~~name~~ translation unit.

Q9.

```
char ch = 'A';  
char *p = &ch;  
char **q = &p;  
char ***x = &q;  
char *y = &ch;
```

①  $\&ch = 642219$   
 $p = 642215$   
 $\&p = 642208$   
 $\&q = 642204$   
 $***x = 65.$







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 → an address space is a range of valid addresses in memory that are available for a program or process

Q. what is the use of next instruction member of stack frame?  
 → it also maintains a program counter (PC) which points to the next instruction to be executed.  
 maintain (SP) stack pointer & (FP)

Q. what is mean by linkage of storage class?  
 → The use or availability of a name across multiple translation unit or within a single ~~name~~ translation unit.

Q.   
 char ch = 'A';  
 char \*p = &ch;  
 char \*x = &p;  
 char \*\*y = &p;  
 char \*\*z = &ch;

①  $\&ch = 642215$   
 $p = 642215$   
 $\&p = 642208$