

```
1.
#include <stdio.h>
struct course
{
    int capacity;
    char coursename[10];
};
int main (void)
{
    struct course arr[] = { {240, "DAC Pune"},
                             {120, "KDAC Karad"},
                             {60, "DBDA"}, {120, "DESD"},
                             {120, "DMC"}, {60, "DITISS"} };

    return 0;
}
```

How to display the capacity of the DITISS course ?

- A. (arr+5)->capacity
- B. arr[5].capacity
- C. both A and B
- D. \*(arr+5)->capacity

Answer : C

```
2.
#include <stdio.h>
struct student
{
    int rollNum: 5;
    char grade;
};
int main( void )
{
    struct student st;

    printf("Address of st.rollNum is %d", &st.rollNum);
    printf("Address of st.grade is %c", &st.grade);

    return 0;
}
```

- A. prints the same address of st.rollNum and st.grade
- B. prints the different addresses of st.rollNum and st.grade
- C. Compile time error
- D. Run time error

Answer: C

3.

```
#include <stdio.h>
```

```
struct test
```

```
{
```

```
    int capacity;
```

```
    char *course;
```

```
    st[] = { 220, "DAC Pune",  
            120, "KDAC Karad ",  
            60, "DBDA",  
            120, "DESD",  
            120, "DMC",  
            60, "DITISS"};
```

```
int main (void)
```

```
{
```

```
    typedef struct test TEST;
```

```
    TEST *p = st;
```

```
    p += 1;
```

```
    ++p -> course;
```

```
    printf(" %s", p++ -> course);
```

```
    return 0;
```

```
}
```

- A. DAC Pune
- B. KDAC Karad
- C. DAC Karad
- D. DAC Pune

Answer: C

4. select correct way of declaration of nested structure?

A. **struct** Institute

```
{  
    int institute_id;  
    char name[10];  
    struct Course  
    {  
        int capacity;  
        char *course;  
    }CourseName;  
};
```

B. **struct** Course

```
{  
    int capacity;  
    char *course;  
};  
struct Institute  
{  
    int institute_id;    char name[10];  
    struct Course CourseName;  
};
```

C. **struct** Institute

```
{  
    int institute_id;  
    char name[10];  
    struct Course CourseName;  
};  
struct Course  
{  
    int capacity;        char *course;  
};
```

D. Both A and B

Answer: D

5.

`#include<stdio.h>``#pragma pack(1)``struct s2``{` `char *cp;` `struct s1` `{` `char a[4];` `char *p;` `}o1;``}s;``int main()``{` `printf("\n size of s= %d", sizeof(s));` `return 0;``}``// note consider 64 bit operating system`

A. 20

B. 12

C. 16

D. 24

Answer: A