

Cimtrix Systems C Programming Questions And Answers

Q1. What is the output of this C code?

```
#include
struct student
{
char *c;
};
void main()
{
struct student m;
struct student *s = &m;
s->c = "hello";
printf("%s", s->c);
}
```

- a) hello
- b) Run time error
- c) Nothing
- d) Depends on compiler

Q2. What is the output of this C code?

```
#include
struct student
{
char *c;
};
void main()
{
struct student *s;
s->c = "hello";
printf("%s", s->c);
}
```

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}

- a) hello
- b) Segmentation fault
- c) Run time error
- d) Nothing

Q3. What is the output of this C code?

```
#include
struct student
{
char *c;
};
void main()
{
struct student m;
struct student *s = &m;
s->c = "hello";
printf("%s", m.c);
}
```

- a) Run time error
- b) Nothing
- c) hello
- d) Varies

Q4. What is the output of this C code?

```
#include
struct student
{
```

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```
char *c;  
};  
void main()  
{  
    struct student m;  
    struct student *s = &m;  
    (*s).c = "hello";  
    printf("%s", m.c);  
}
```

- a) Run time error
- b) Nothing
- c) Varies
- d) hello

Q5. What is the output of this C code?

```
#include  
struct student  
{  
    char *c;  
};  
void main()  
{  
    struct student n;  
    struct student *s = &n;  
    (*s).c = "hello";  
    printf("%p %p ", s, &n);  
}
```

- a) Different address
- b) Run time error
- c) Nothing
- d) Same address

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Q6. What is the output of this C code?

```
#include
struct p
{
    int x[2];
};
struct q
{
    int *x;
};
int main()
{
    struct p p1 = {1, 2};
    struct q *ptr1;
    ptr1->x = (struct q*)&p1.x;
    printf("%d ", ptr1->x[1]);
}
```

- a) Compile time error
- b) Segmentation fault/code crash
- c) 2
- d) 1

Q7. What is the output of this C code?

```
#include
struct p
{
    int x[2];
};
```

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```
struct q
{
int *x;
};
int main()
{
struct p p1 = {1, 2};
struct q *ptr1 = (struct q*)&p1;
ptr1->x = (struct q*)&p1.x;
printf("%d ", ptr1->x[0]);
}
```

- a) Compile time error
- b) Undefined behaviour
- c) Segmentation fault/code crash
- d) 1

Q8. What is the output of this C code?

```
#include
struct p
{
int x;
int y;
};
int main()
{
struct p p1[] = {1, 2, 3, 4, 5, 6};
struct p *ptr1 = p1;
printf("%d %d ", ptr1->x, (ptr1 + 2)->x);
}
```

- a) 1 5
- b) 1 3

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- c) Compile time error
- d) 1 4

Q9. What is the output of this C code?

```
#include
struct p
{
int x;
char y;
};
int main(){
struct p p1[] = {1, 92, 3, 94, 5, 96};
struct p *ptr1 = p1;
int x = (sizeof(p1) / sizeof(struct p));
printf("%d %d ", ptr1->x, (ptr1 + x - 1)->x);
}
```

- a) Compile time error
- b) Undefined behaviour
- c) 1 3
- d) 1 5

ANS: d