

```
1.
#include<stdio.h>
union
{
    short i;
    char c;
}u;
int main(void)
{
    u.c = 'D';
    u.i = 0x0041;
    printf("%d %c", sizeof(u), u.c);
    return 0;
}
```

- A. 2 A
- B. 2 D
- C. 3 A
- D. 3 D

Answer: A

```
2.
#include<stdio.h>
#pragma pack(1)
struct
{
    char ca[10];
    union u
    {
        int i;
        char c;
        long l;
    }u1;
}s1;
int main(void)
{
    printf("%d", sizeof(s1) + sizeof(s1.u1));
    return 0;
}
```

- A. 20
- B. 18
- C. 23
- D. 26

Answer: D

3.

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

```
#pragma pack(1)
```

```
struct test
```

```
{
```

```
    struct test *prev;
```

```
    char data;
```

```
    struct test *next;
```

```
};
```

```
int main(void)
```

```
{
```

```
    printf("\n size of node=%d", sizeof(struct test));
```

```
    return 0;
```

```
}
```

what will be size of **struct** test node? Note: consider 64 bit compiler

- A. 12
- B. 20
- C. 9
- D. 17

Answer: D

4. **if** sunbeam.txt file contents [sunbeam] data in file what will be output ?

```
#include <stdio.h>
int main(void)
{
    FILE *fpRead=NULL;
    unsigned char ch;
    fpRead = fopen("sunbeam.txt", "r");
    while((ch=fgetc(fpRead))!= EOF)
        printf("%c", ch);

    return 0;
}
```

- A. prints sunbeam
- B. infinitely loop
- C. no output
- D. run time error

Answer: B

5. What should be the output of the following code?
if file contents following data in sunbeam.txt
[Sunbeam DBDA DITISS DESD DMC DAC]

```
#include <stdio.h>
int main( void )
{
    FILE *fp=NULL;
    char a[7], b[8], c[8];
    fp = fopen("sunbeam.txt", "r");
    fgets(a, 7, fp);
    fgets(b, 8, fp);
    fgets(c, 8, fp);
    puts(c);
    return 0;
}
```



- A. DITISS**
- B. TISS**
- C. TISS DES**
- D. ITISS D**

Answer :A

SunBeam