

- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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Solution to Homework 22

1.

A.

i	c	j	d	Total	Alignment
0	4	8	12	16	4

B.

i	c	d	j	Total	Alignment
0	4	5	8	12	4

C.

w	c	Total	Alignment
0	6	10	2

D.

w	c	Total	Alignment
0	8	20	4

E.

a	p	Total	Alignment
0	32	36	4

2. A.

Field	a	b	c	d	e	f	g	h
Size	4	2	8	1	4	1	8	4
Offset	0	4	8	16	20	24	32	40

B. The structure is a total of 48 bytes long. The end of the structure must be padded by 4 bytes to satisfy the 8-byte alignment requirement.

C.

```
struct {
    double c;
    long long g;
    float e;
    char *a;
    void *h;
    short b;
    char d;
    char f;
} foo;
```

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