CSPB 2400 - Park - Computer Systems

Started on	Sunday, 18 February 2024, 4:28 PM
State	Finished
Completed on	Sunday, 18 February 2024, 4:31 PM
Time taken	2 mins 54 secs
Marks	5.00/5.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

An array A is declared:

int A[4];

Assuming the starting address of **A** is 2000. What is **&A[1]?**

2004

Your last answer was interpreted as follows: 2004

Correct answer, well done.

Question **2**

Correct

Mark 1.00 out of 1.00

An array A is declared:

```
#define N 10
#define M 3
int A[N][M];
```

Assuming the starting address of **A** is 300. What is **&A[5][2]?** 368

You can use an expression if that is useful.

Your last answer was interpreted as follows: 368

Correct answer, well done.

Question **3**

Correct

Mark 1.00 out of 1.00

An array A is declared:

```
int A[3][6];
```

What is **sizeof(A)**?

72

Your last answer was interpreted as follows: 72

Correct answer, well done.

Question **4**

Correct

Mark 1.00 out of 1.00

An array A is declared:

#define L 2
#define M 2
#define N 2

int A[L][M][N];

Assuming the starting address of **A** is 400. What is &A[0] [0] [0]?

400

You can use an expression if that is useful.

Your last answer was interpreted as follows: 400

Correct answer, well done.

Question **5**

Correct

Mark 1.00 out of 1.00

Consider the following struct:

```
struct S1 {
  char c;
  int i[2];
  double v;
} *p;
```

What is the offset from the beginning of the struct memory for each of the following fields if integers are 4 bytes?

c = 0 ✔

i[0] = 4 ✔

i[1] = 8 ✔

v = 16 ✔