Class test (#3)

Total points 5/5



Date: September 29, 2020

Maximum marks: 5 (To be normalized to 3)

Expected time to answer 5 questions: 5-7 minutes

Total time: 10 minutes

The respondent's email address (f20181119@pilani.bits-pilani.ac.in) was recorded on

submission of this form.

0 of 0 points

ID *

2018A7PS1119P

Name *

Shreyas Bhat Kera

Questions 1-5 5 of 5 points

Consider the following record types in a C-like language.struct point { float 1/1 x,y;}; struct triangle { struct point P1, P2, P3;}; struct triangle A[10]; The layout of an array of records is determined at	
Compile time if the index of the array is an integer value irrespective of trial point structure	angle using
Run time if the record definition for triangle does not use that of point struthe index of the array is an integer value	icture and
None of these	
Run time if the index of the array is an integer value irrespective of triangle using point structure	
Compile time if the record definition for triangle does not use that of point and the index of the array is an integer value	structure
A record variable fields are located in the memory	1/1
None of these	
Near the end of the activation record	
In contiguous locations	
O In distributed locations	

Consider the following code written in C language. If each character, integer 1/1 and floating point data requires 1, 2 and 4 memory locations respectively, then

```
int main()
{
    union node{
        float p;
        char a;
        int B[13];
        char r;
    };
    struct tree {
        int A[10];
        float b, c;
        int w;
        union node U;
        char d, e;
    } Z;
    union node Y;
    return 0;
}
```

- None of these
- The total memory allocated to variables Y and Z are 32 and 64 respectively.
- The total memory allocated to variables Y and Z are 26 and 58 respectively.
- The total memory allocated to variables Y and Z are 56 and 32 respectively.

Given a code segment in C programming languagestruct states { char name[20]; int population; float happiness_index; }struct states a; The type expression best described for type checking for the variable a is	1/1
(array, char) x 20 x int x float	
Char x 20 x int x float x array	
(char, 20) x int x float	
array(char, 20) x int x float	
None of these	
The amount of memory allocated to a record variable is	1/1
None of these	
Sum of the sizes of individual fields in the record type definition	

This form was created inside BITS Pilani University.

Minimum of the sizes of individual fields in the record type definition

Maximum of the sizes of individual fields in the record type definition

Google Forms