11551001318_CS F363_JAN_2023 » Forums » Announcements » Stage 2: Marks

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Stage 2: Marks
by Vandana Agarwal . - Thursday, 20 April 2023, 9:19 PM

testcases (stage2 evaluation).zip

The marks are awarded for the correctness of the code, which was tested using variations in the test cases upload
followed throughout, the subjective assessment of the messages is also incorporated to identify the real cause of
assess their work based on the criteria below.

**1. AST (8 Marks)**

- 
  - [1.a] paper work - 2 M
  - [1.b] AST output - 4 M
  - [1.c] compression ratio - 2 M

**2. Symbol Table (14 Marks)**

- 
  - [2.a] Type (Local/non-local variables) - 2 M
  - [2.b] Scope (function /block/nesting level) - 2 M
  - [2.c] Offset computation (local) -2M
  - [2.d] Offset computation (non-local) - 2M
  - [2.e] Static array (width/offset/range) -2 M
  - [2.f] Parameters type and offsets - 2 M
  - [2.g] Activation record size -2 M

**3. Type checking (12 Marks)**

- 
  - [3.a] Primitive data type mismatch - 2 M
  - [3.b] Static array/elements type mismatch- 2 M
  - [3.c] Static array bound checking - 2 M
  - [3.d] Switch variable type mismatch -2 M
  - [3.e] Input/ output  parameters types - 2 M
  - [3.f] Parameter of an array type -2 M

**4. Semantic Analysis (14 Marks)**

-

- o [4.a] Variable declared/ re-declared -2 M
- o [4.b] Function definition preceding its call -2 M
- o [4.c] Function overloading and recursion -2 M
- o [4.d] Switch case default semantics -2 M
- o [4.e] For loop semantics variable not assigned value - 2 M
- o [4.f] Output parameters assigned a value -2 M
- o [4.g]While semantics for assignment to minimum one variable -2 M

**5. Code generation (12 Marks)**

- 
  - o [5.a] Expressions using primitive data type -2 M
  - o [5.b] Expressions with static array elements -2 M
  - o [5.c] switch conditional statements -2 M
  - o [5.d] For  and while loop -2 M
  - o [5.e] Functions and parameter passing -2 M
  - o [5.f] Dynamic type checking -2 M

The test cases used for evaluation are attached for your reference using which you can evaluate your code.

The major reasons for marks less than your expectations could be some of the following

- 
  - o Code does not compile
  - o Make file does not work
  - o Many compilation errors exist
  - o Segmentation faults
  - o option selection does not work
  - o No visible output
  - o error in the generated code.asm file

Please apply for a recheck, if you expect  your marks to be more than what you got. The entire code will be re-eva

**Rechecks: Genuine recheck requests will be accepted up to April 22, 2023 (Saturday), 7:00 p.m on Nalanda. The**
**from tomorrow 8:00 a.m. to Saturday, 7:00 p.m.**

**The rechecks will be done next week.**

**Marks list**

| | AST (8) | | | Symbol Table (14) | | | | | | | Type checking (12) | | | | | | Semantic rules (14) | | | | | | | c |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.a | 1.b | 1.c | 2.a | 2.b | 2.c | 2.d | 2.e | 2.f | 2.g | 3.a | 3.b | 3.c | 3.d | 3.e | 3.f | 4.a | 4.b | 4.c | 4.d | 4.e | 4.f | 4.g | 5 |
| Group number | 2M | 4M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2M | 2 |

| Group | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 | C18 | C19 | C20 | C21 | C22 | C23 | C24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Group_1 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |
| Group_2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Group_3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_4 | 2 | 3 | 2 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_5 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Group_6 | 2 | 4 | 2 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_9 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 0 |
| Group_10 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| Group_11 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 0 |
| Group_12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_15 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| Group_16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_17 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_18 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_23 | 2 | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Group_24 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Group_26 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_27 | 2 | 4 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_29 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_30 | 2 | 4 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Group_31 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_32 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_34 | 2 | 3 | 0 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Group_35 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_37 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | 2 |
| Group_39 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_41 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 0 | 0 |
| Group_42 | 2 | 4 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Group_44 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Group_45 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 0 | 0 |
| Group_46 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Group_47 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 2 | 0 | 2 | 0 | 0 | 0 |
| Group_50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Group_51 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 |

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