

HW4.6. RISC-V Instruction Classification (Randomized)

Classify the following instructions as one of the 6 instruction types. Note that I\*-type instructions still belong to I-type class.

Refer to the [Reference Card](#) to help you out.

1: ori a3 s2 0x3DE

☐ (a) R

☒ (b) I

☐ (c) S

☐ (d) B

☐ (e) U

☐ (f) J

✓ 100%

2: sub t5 s2 s8

☒ (a) R

☐ (b) I

☐ (c) S

☐ (d) B

☐ (e) U

☐ (f) J

✓ 100%

3: sh sp 0x5CF(t1)

☐ (a) R

☐ (b) I

☒ (c) S

☐ (d) B

☐ (e) U

☐ (f) J

✓ 100%

4: jal x0 0xD5216

☐ (a) R

☐ (b) I

☐ (c) S

☐ (d) B

☐ (e) U

☒ (f) J

✓ 100%

5: auipc gp 0x9BFCE

☐ (a) R

☐ (b) I

☐ (c) S

☐ (d) B

☒ (e) U

☐ (f) J

✓ 100%

6: bge x0 s0 0x33E

Homework 4

Assessment overview

Total points: 62/100

Score: 

62%

Question

Value: 12

History: 12

Awarded points: 12/12

Report an error in this question

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Attached files

No attached files

Attach a file

Attach text

- ☐ (a) R
- ☐ (b) I
- ☐ (c) S
- ☒ (d) B 
- ☐ (e) U
- ☐ (f) J

✓ 100%

Try a new variant

### Correct answer

1: ori a3 s2 0x3DE

(b) I

2: sub t5 s2 s8

(a) R

3: sh sp 0x5CF(t1)

(c) S

4: jal x0 0xD5216

(f) J

5: auipc gp 0x9BFCE

(e) U

6: bge x0 s0 0x33E

(d) B

Submitted answer **correct: 100%**

Submitted at 2022-09-21 00:08:36 (PDT)



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1: ori a3 s2 0x3DE

(b) I  ✓ 100%

2: sub t5 s2 s8

(a) R  ✓ 100%

3: sh sp 0x5CF(t1)

(c) S  ✓ 100%

4: jal x0 0xD5216

(f) J  ✓ 100%

5: auipc gp 0x9BFCE

(e) U  ✓ 100%

6: bge x0 s0 0x33E

(d) B  ✓ 100%