

1. (4 points) Show the renamed versions of the following code. Assume you have 4 rename registers, T1-T4.

---

```
1 ADD R1, R2, R3
2 ADD R3, R4, R5
3 BEQZ R1, 1000
4 ADD R1, R1, R3
5 ADD R1, R1, R3
6 ADD R3, R1, R3
```

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2. (4 points) Show the renamed versions of the following code. Assume you have 36 physical registers and 32 architected registers.

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```
1 ADD R1, R2, R3
2 ADD R3, R4, R5
3 BEQZ R1, 1000
4 ADD R1, R1, R3
5 ADD R1, R1, R3
6 ADD R3, R1, R3
7 ADD R4, R3, R1
```

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