1. 00000100000000010000001111101000 ADDI R0 R1 03E8 🡪 R1 = 03E8

2. 00000100000000100000010010110000 ADDI R0 R2 04B0 🡪 R2 = 04B0

3. 00000000000000000011100000000000 ADD R0 R0 R7 🡪 R7 = 0

4. 00000000000000000100000000000000 ADD R0 R0 R8 🡪 R8 = 0

5. 00000000000000000100100000000000 ADD R0 R0 R9 🡪 R9 = 0

6. 00000000000000000101000000000000 ADD R0 R0 R10 🡪 R10 = 0

7. 00000100000010110000000000110010 ADDI R0 R11 4000 🡪 R11 = 4000

8. 00000100000011000000000000100000 ADDI R0 R12 0020 🡪 R12 = 0020

9. 00111101010010110000000000001101 BEQ R10 R11 000D 🡪

10. 00110000001000110000000000000000 LDW R1 R3 0000 🡪 R3 = 2

11. 00110000010001000000000000000000 LDW R2 R4 0000 🡪 R4 = 1

12. 00001000011001000010100000000000 SUB R3 R4 R5 🡪 R5 = 1

13. 00100100101001100000000000000001 ANDI R5 R6 0001 🡪 R6 = 1

14. 00111000110000000000000000000010 BZ R6 2

15. 00000100111001110000000000000001 ADDI R7 R7 0001 🡪 R7 = 1

16. 00000001000000110100000000000000 ADD R8 R3 R8 🡪 R8 = 2

17. 00000001001001000100100000000000 ADD R9 R4 R9 🡪 R9 = 1

18. 00000100001000010000000000000100 ADDI R1 R1 4 🡪 R1 = 03EC

19. 00000100010000100000000000000100 ADDI R2 R2 4 🡪 R2 = 04B4

20. 00000101010010100000000000000001 ADDI R10 R10 0001 🡪 R10 = 1

21. 01000001100000000000000000000000 JR R12 00000 🡪 PC = 0020

22. 00110100000001110000010101111000 STW R0 R7 0578 🡪 Store 1 into address = 0578

23. 00110100000010000000010101111100 STW R0 R8 057C 🡪 Store 2 into address = 057C

24. 00110100000010010000010110000000 STW R0 R9 0580 🡪 Store 1 into address = 0580

25. 01000100000000000000000000000000 HALT

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