CODH 作业 2

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2.9

```
    opcode: 0010011, rs1: x10, rd: x30, imm: 8, funct3: 0x0
    opcode: 0010011, rs1: x10, rd: x31, imm: 0, funct3: 0x0
    opcode: 0100011, rs1: x31, rs2:x30, imm:0, funct3: 0x3
    opcode: 0000011, rs1: x30, rs2:x30, imm:0, funct3: 0x3
    opcode: 0110011, rs1: x30, rd: x5, rs2:x31, funct3:0x0, fucnt7:0x00
```

2.24

}

```
1. 最终值为 20.
2.

int acc = 0, i=10;
while(i){
    i--;
    acc += 2;
}
3. 共执行了 4n+1 条指令.
4.

int acc = 0, i = 10;
while(i >= 0){
    i--;
    acc += 2;
```

2.35

- 1. 0x11
- 2. 0x88

2.40

- $1.CPI = 2 \times 0.7 + 6 \times 0.1 + 3 \times 0.2 = 2.6$
- 2. 性能提高 25% 后, $CPI=2.6\times0.75=1.95=x\times0.7+6\times0.1+3\times0.2,$ 解得 x=1.071
- 3. $CPI = 2.6 \times 0.5 = 1.3 = x \times 0.7 + 6 \times 0.1 + 3 \times 0.2$, 解得 x = 0.143