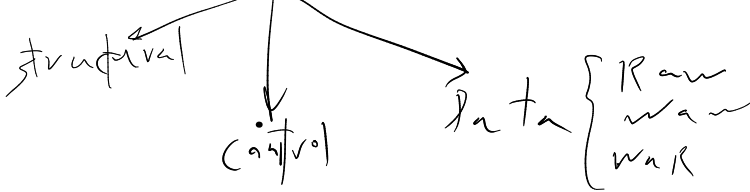


CISC / RISC

↓
pipeline

↓
Hazard



```

for (int i=0; i < 20; i++) {
    z[i] = x[i] + y[i];
}
  
```

```

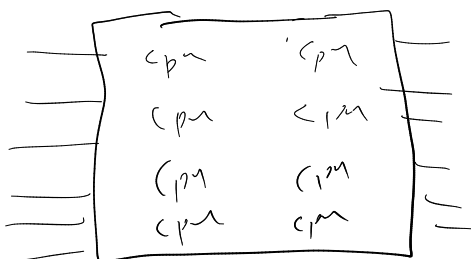
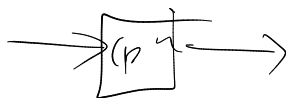
for (int i=0; i < 20; i+=4) {
  
```

$z[i] = x[i] + y[i];$

$z[i+1] = x[i+1] + y[i+1];$

$z[i+2] = x[i+2] + y[i+2];$

$z[i+3] = x[i+3] + y[i+3];$



SD R1, 16(R2) \rightarrow $\overset{15}{16} + R2$
 LD R3, 15(R6) \rightarrow $15 + \overset{15}{R6}$

✓ LR

ADD R_3, R_2, R_1

SUB R_1, R_4, R_5