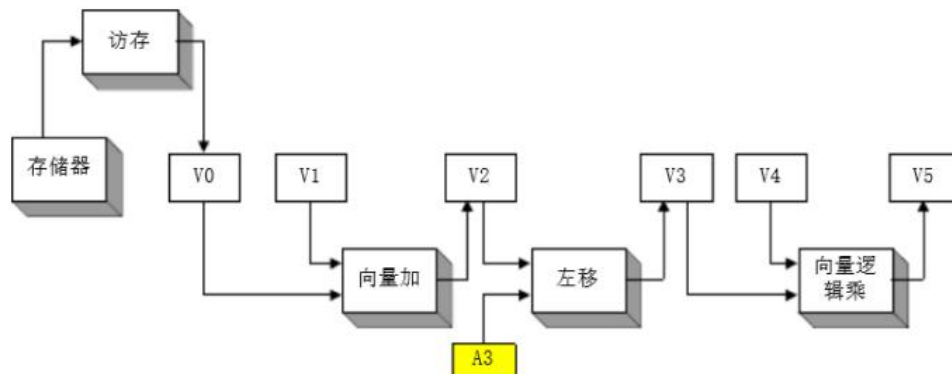


随堂测验 5-答案

1. 解:



$$T_{\text{通过}} = (7+1) + (1+3+1) + (1+4+1) + (1+2+1) = 23 \text{ (拍)}$$

$$T_{\text{总}} = 23 + (64-1) = 86 \text{ (拍)}$$

2. a. 真相关: S1 到 S2 基于 A[i], S3 到 S4 基于 A[i]

输出相关: S1 到 S3 基于 A[i]

反相关: S2 到 S3 基于 A[i], S3 到 S4 基于 C[i],

S1 到 S3 基于 A[i], S1 到 S2 基于 B[i]

修改代码如下:

```
for(int i = 0; i < 100; i++)
```

```
{
```

```
    T[i] = A[i] + B[i];
```

```
    B1[i] = T[i] + c;
```

```
    A1[i] = C[i] * c;
```

```
    C1[i] = D[i] * A1[i];
```

```
}
```

b. S1 与 S2 之间存在相关；循环不能并行

修改代码如下：

```
A[0] = A[0]+B[0];
```

```
for(int i = 0;i < 99;i++)
```

```
{
```

```
    B[i+1] = C[i] + D[i];
```

```
    A[i+1]= A[i+1]+B[i+1];
```

```
}
```

```
B[100]=C[99]+D[99];
```