

Apply loop distribution to the code given below. Distribute the loop as far as possible. Which loop can be parallelized?

```
        for (i=0;i<n;i++) {  
S1:      B(i)=A(i)  
S2:      A(i)=A(i)+B(i+1)  
S3:      C(i)=2*B(i)  
        }
```

Apply loop alignment to

```
        for (i=0;i<n;i++) {  
S1:      B(i)=D(i)  
S2:      A(i)=A(i)+B(i+1)  
        }
```