

# Control (1A)

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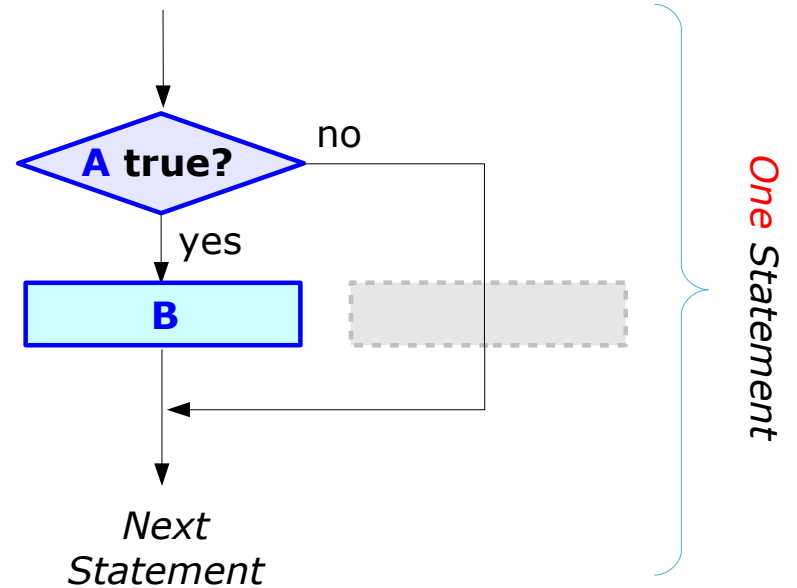
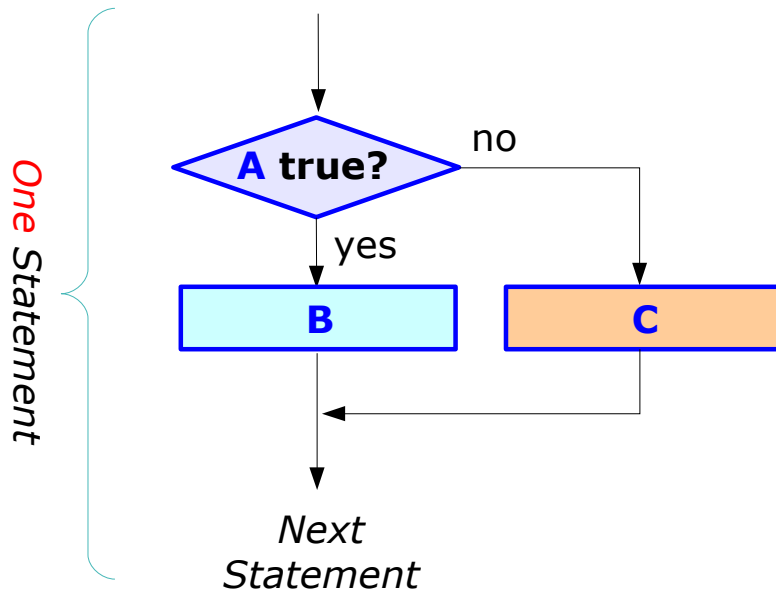
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# If Statement

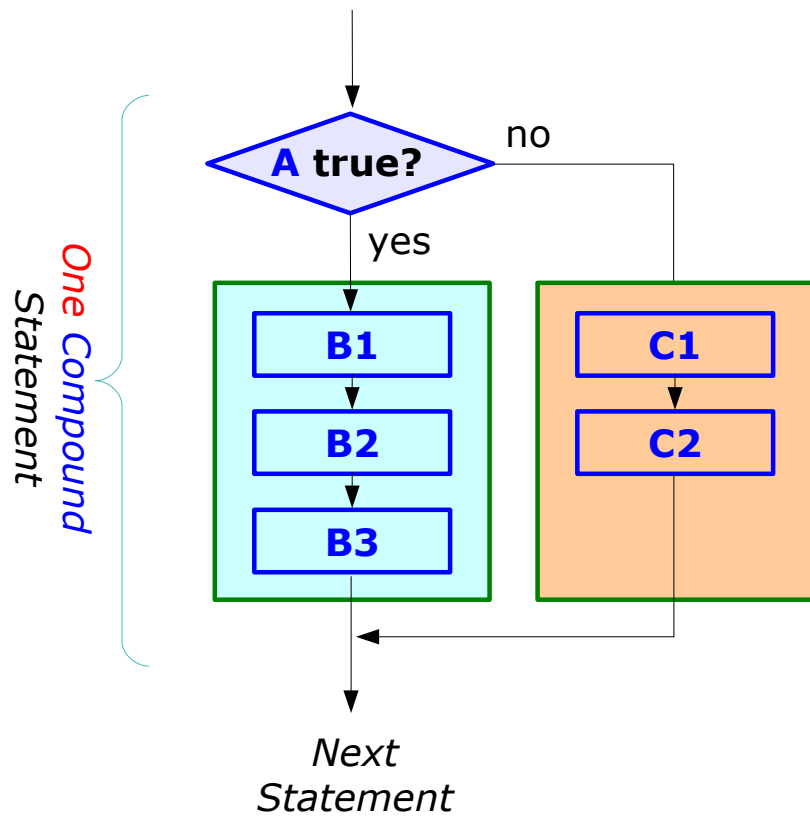
```
if ( A ) B;  
else   C;
```

```
if ( A ) B;
```

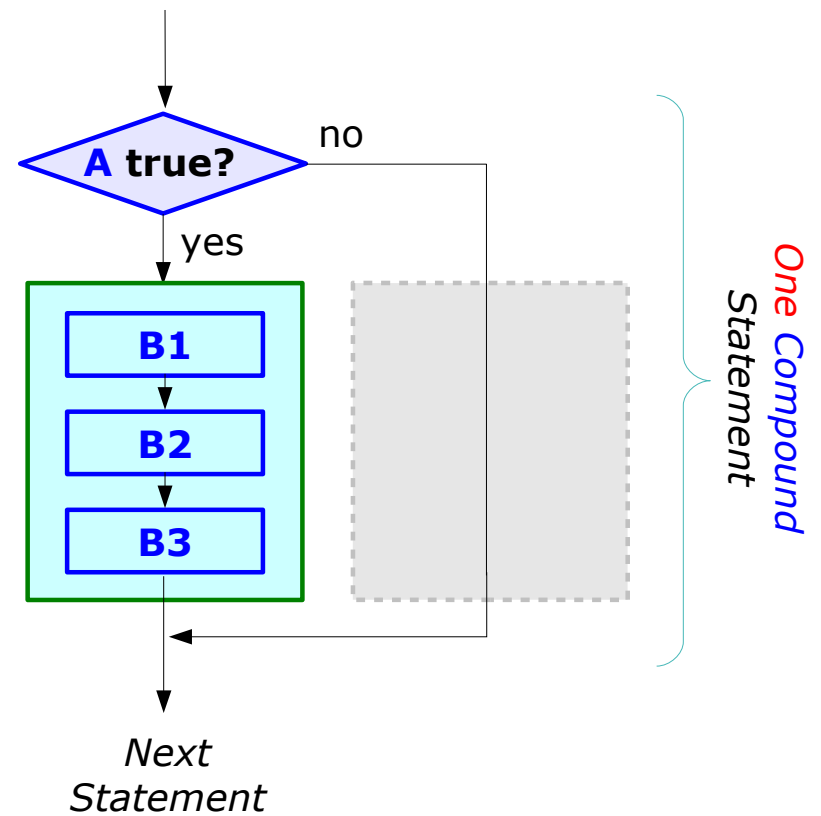


# If Compound Statement

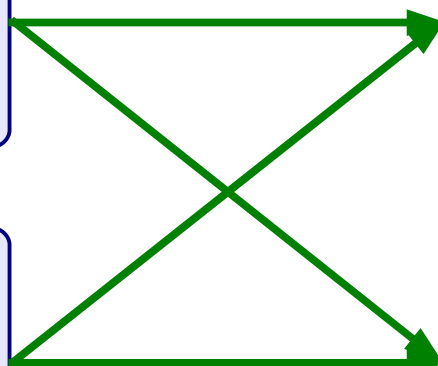
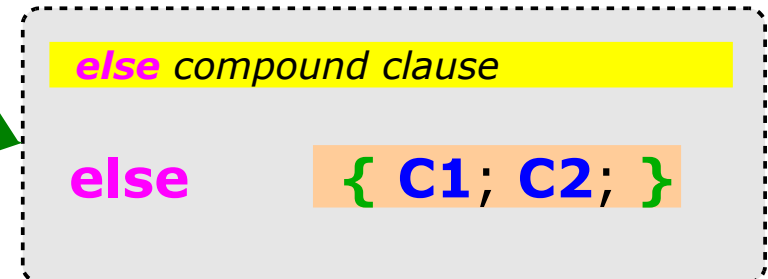
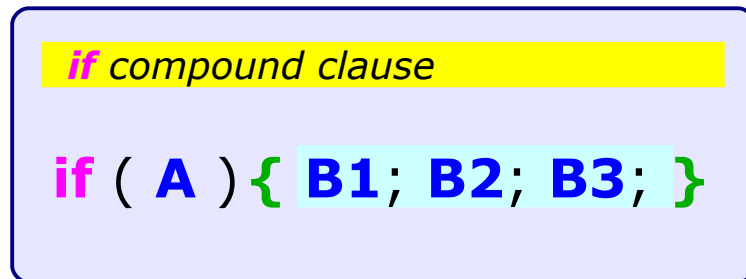
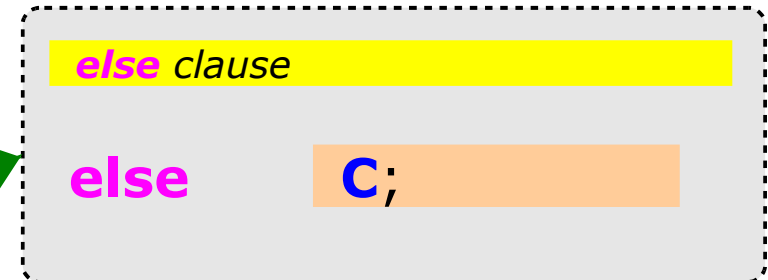
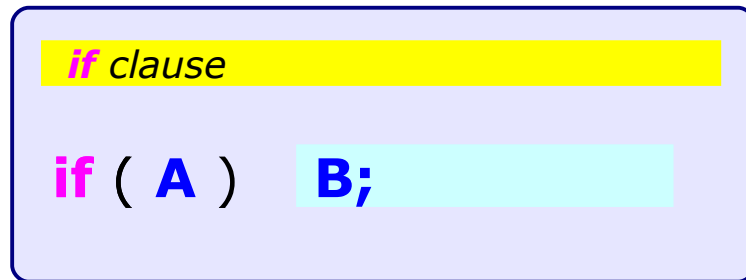
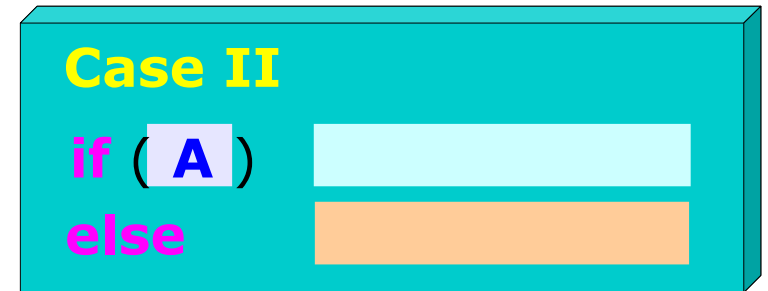
```
if ( A ) { B1; B2; B3; }  
else { C1; C2; }
```



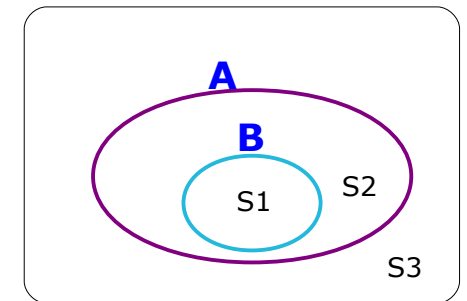
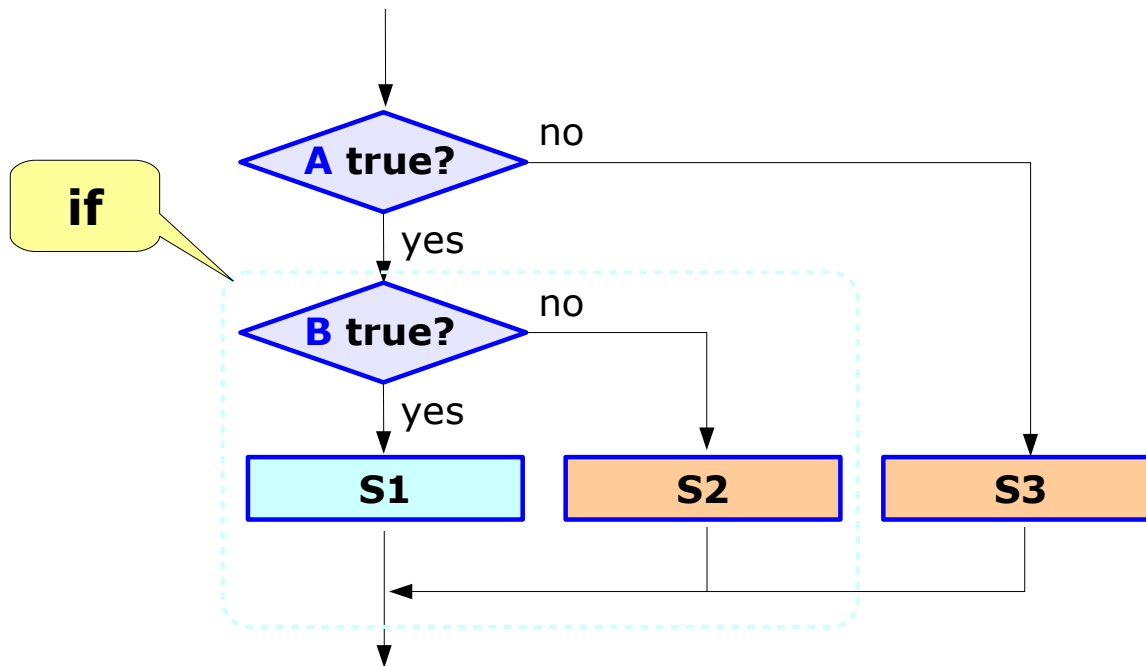
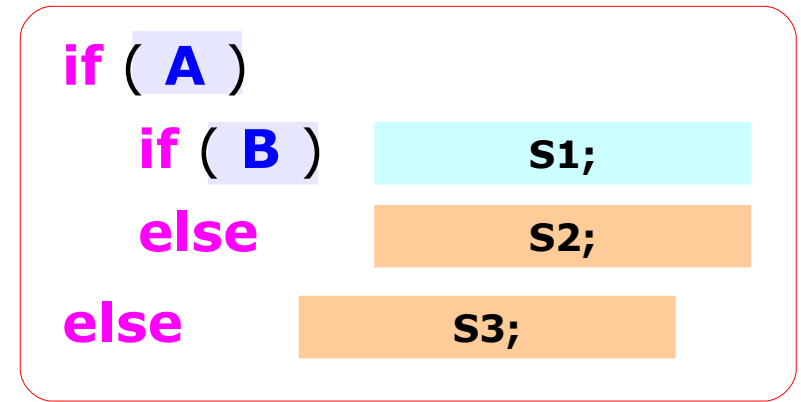
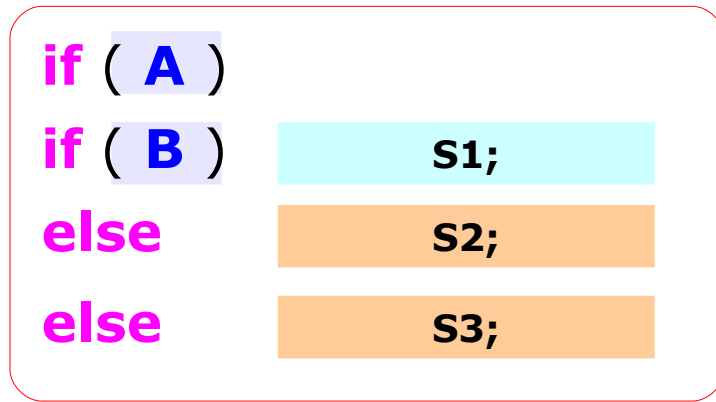
```
if ( A ) { B1; B2; B3; }
```



# Cases of **If** Statements



# Nested If Statement (1)

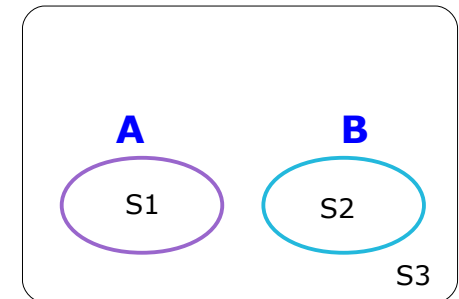
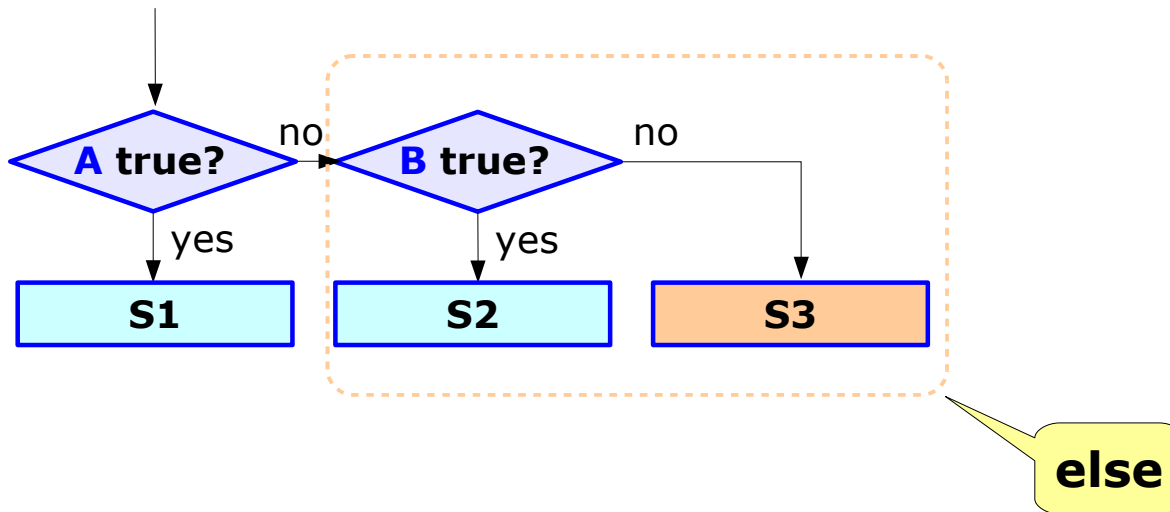


# Nested If Statement (2)

```
if ( A ) S1;  
else  
if ( B ) S2;  
else S3;
```

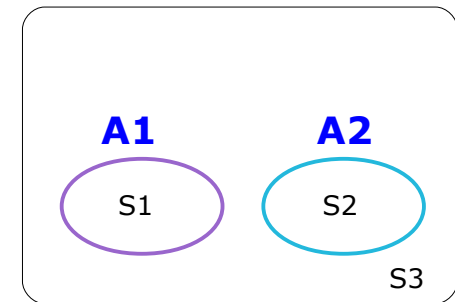
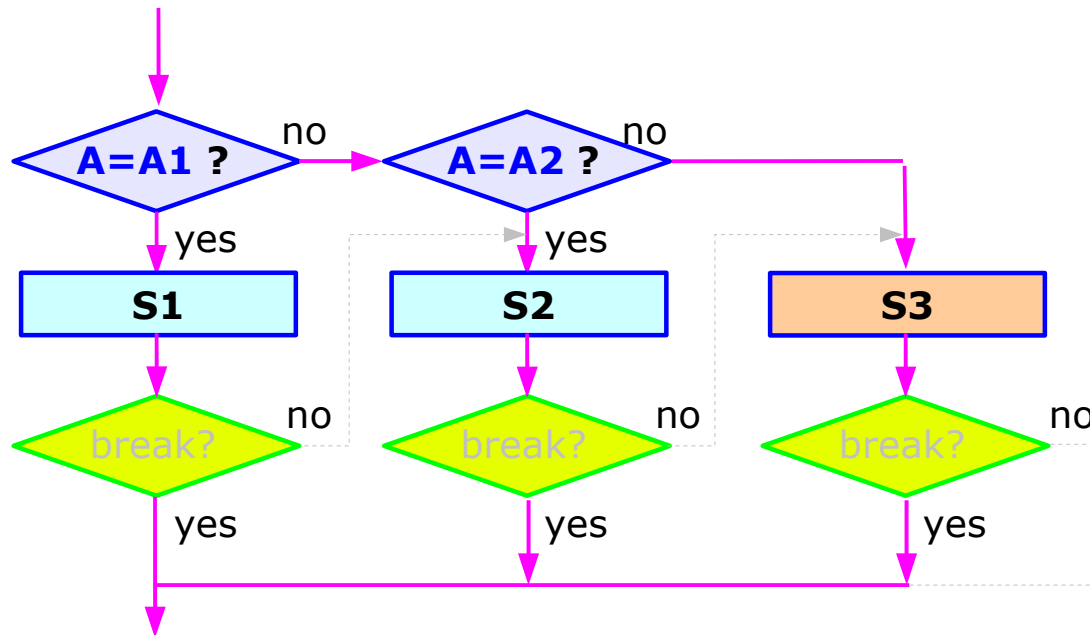


```
if ( A ) S1;  
else if ( B ) S2;  
else S3;
```



# Switch Statement (1)

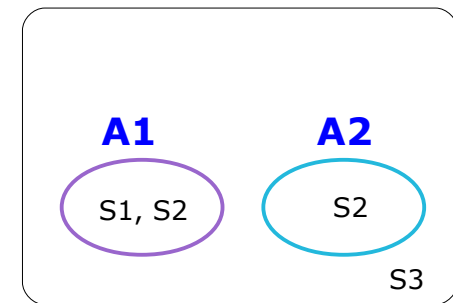
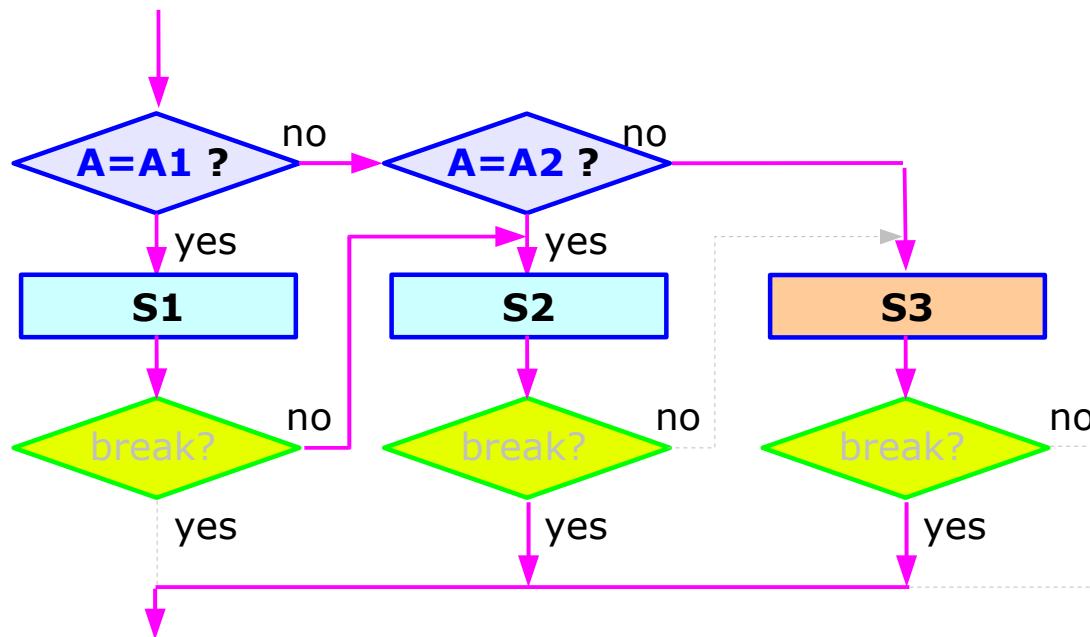
```
switch ( A ) {  
case A1: S1;  
         break;  
case A2: S2;  
         break;  
default : S3;  
         break;  
}
```





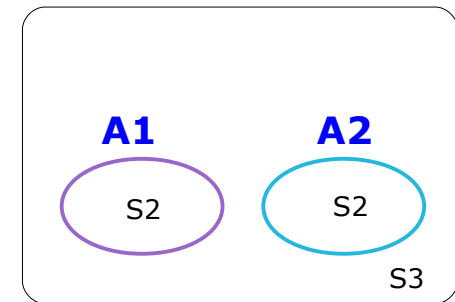
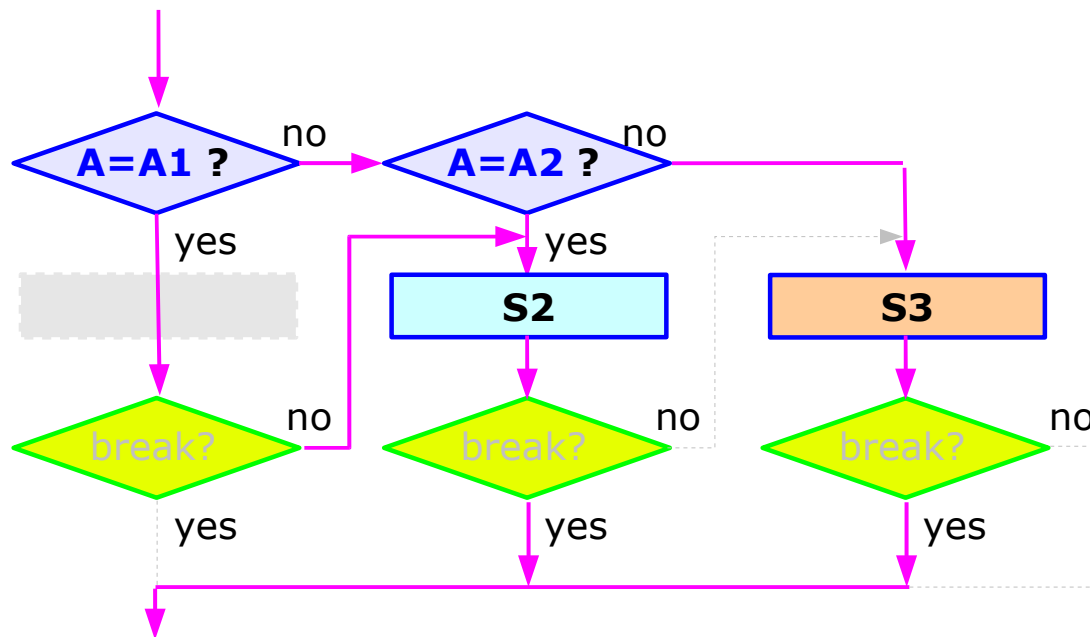
# Switch Statement (2)

```
switch ( A ) {  
case A1: S1;  
case A2: S2;  
        break;  
default : S3;  
        break;  
}
```



# Switch Statement (3)

```
switch ( A ) {  
  case A1:  
  case A2: S2;  
           break;  
  default : S3;  
           break;  
}
```



# 2-d Array

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## References

- [1] Essential C, Nick Parlante
- [2] Efficient C Programming, Mark A. Weiss
- [3] C A Reference Manual, Samuel P. Harbison & Guy L. Steele Jr.
- [4] C Language Express, I. K. Chun