

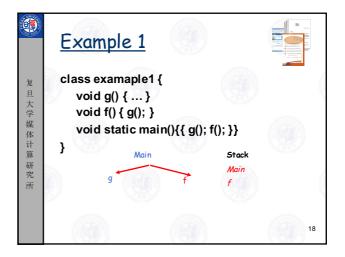
```
Example 1

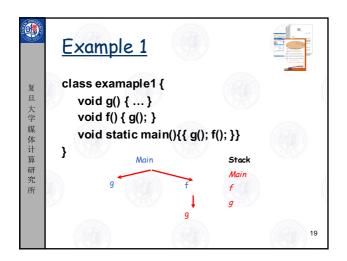
class examaple1 {
    void g() { ... }
    void f() { g(); }
    void static main(){{ g(); f(); }}
}

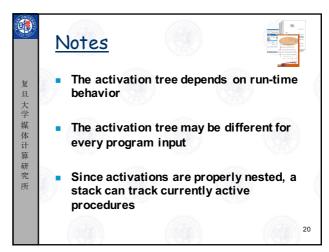
Main

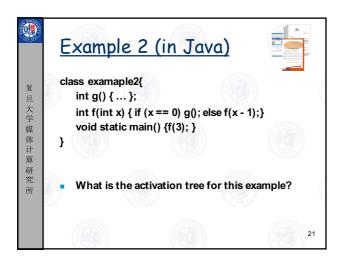
g

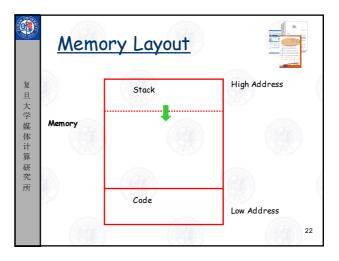
17
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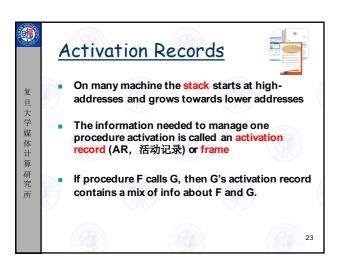


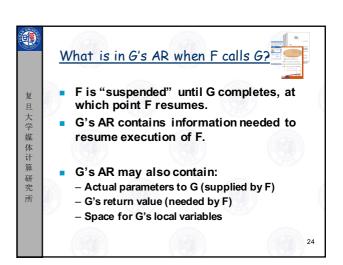


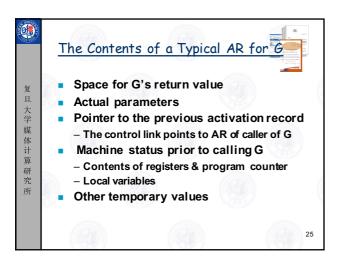


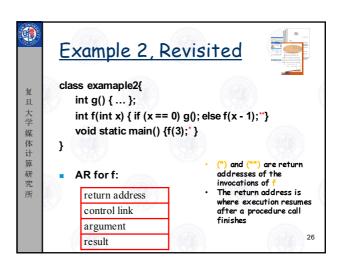


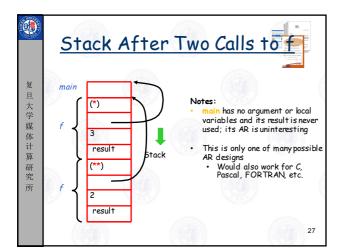


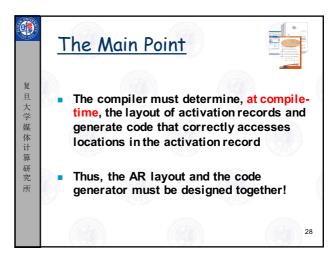


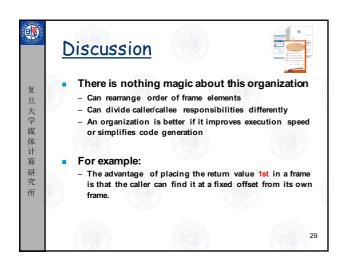


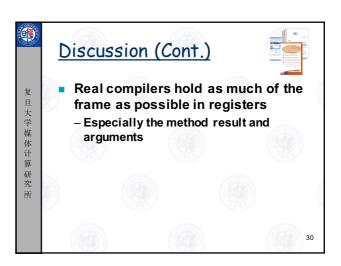




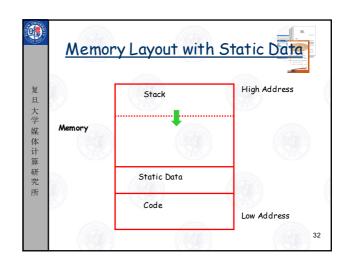


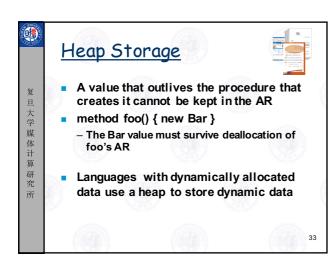


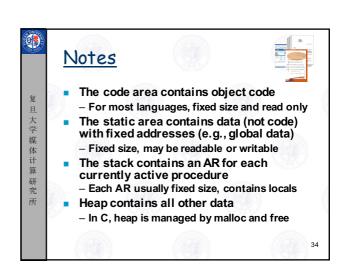


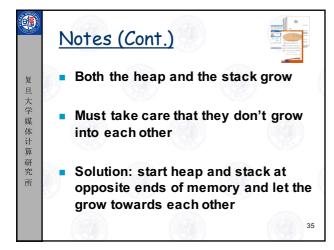


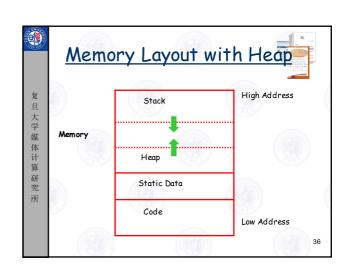




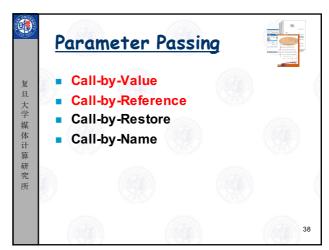


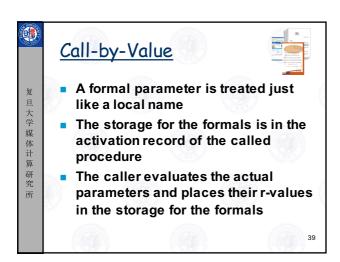


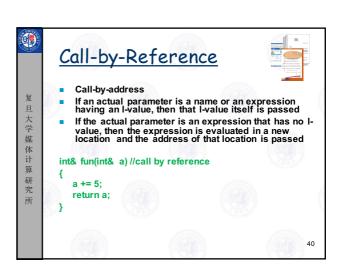


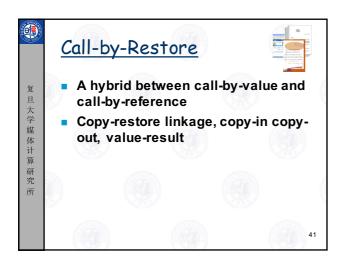


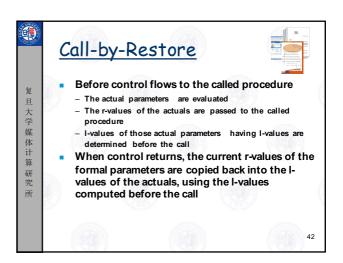


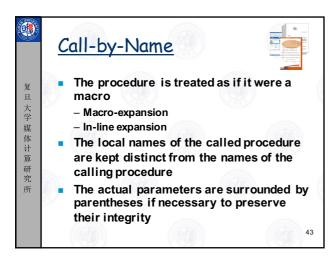




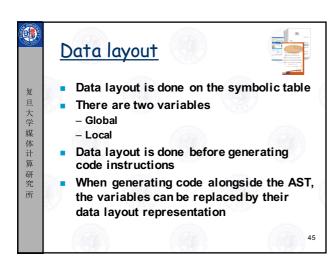


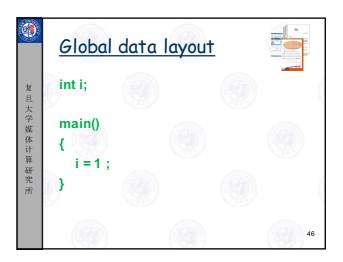


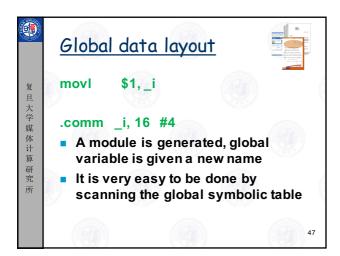


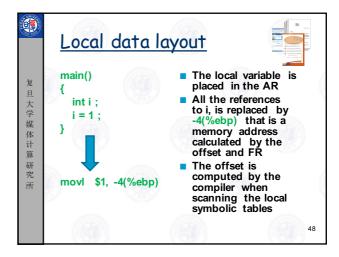


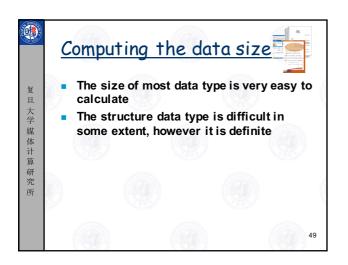


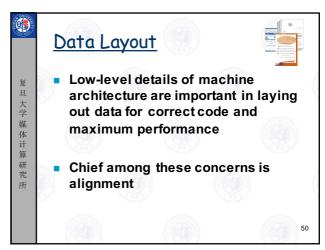


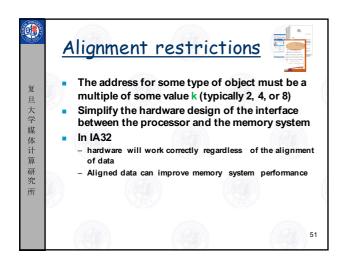


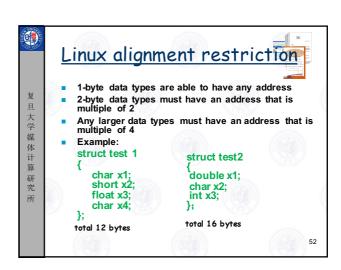


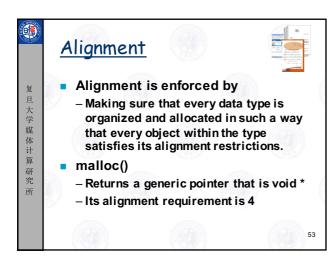


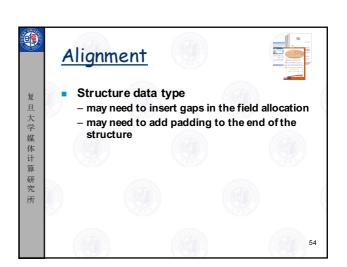


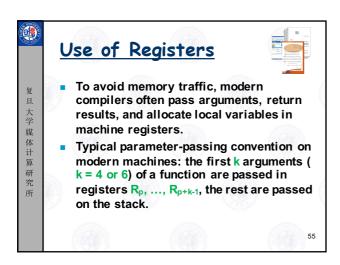


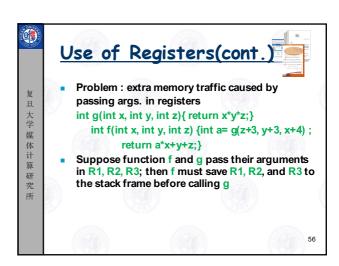


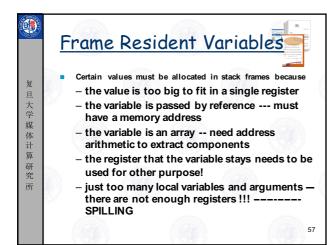


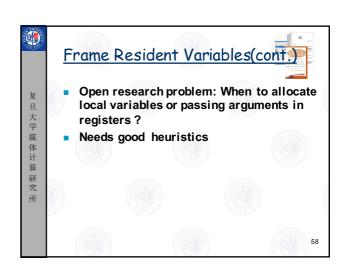




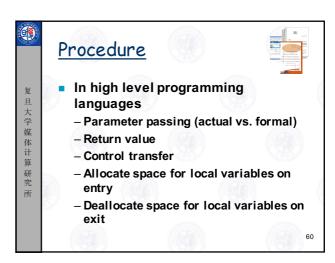


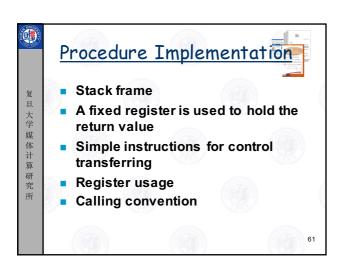




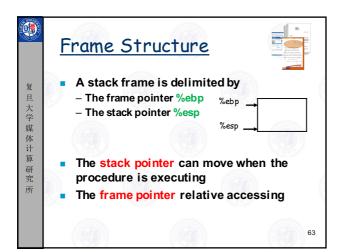


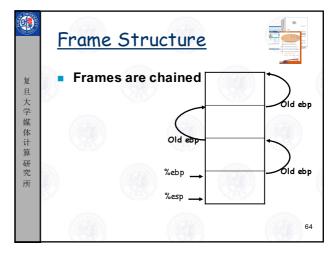


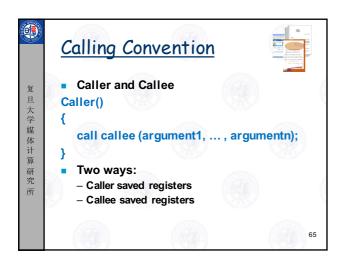


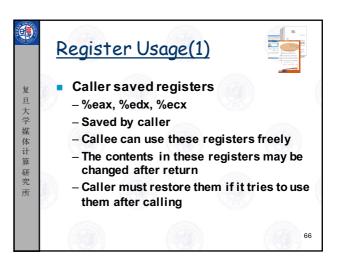


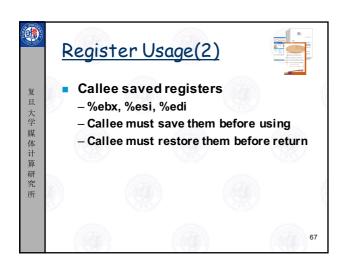




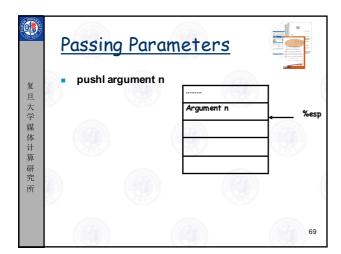


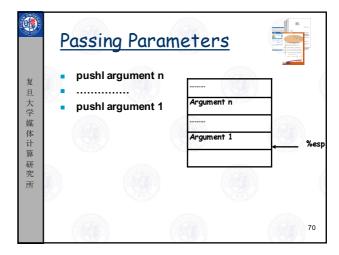


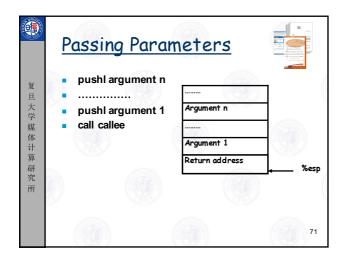


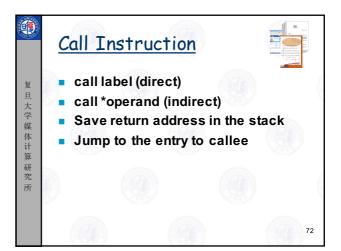


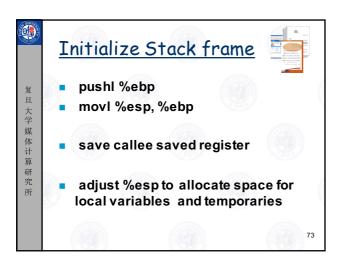


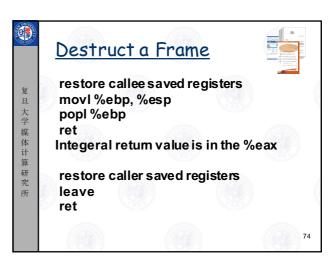












```
Example

int swap_add(int *xp, int *yp)
{
    int x = *xp;
    int y = *yp;
    *xp = y;
    *xp = y;
    *yp = x;
    return x + y;
}
```

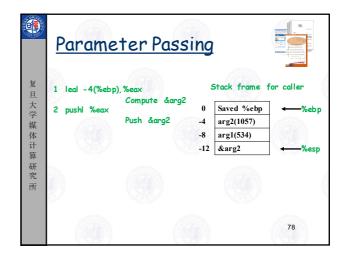
```
Example

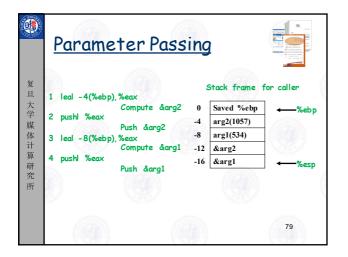
int caller()
{
    int arg1 = 534;
    int arg2 = 1057;
    int sum = swap_add(&arg1, &arg2);
    int diff = arg1 - arg2;
    return sum * diff;
}
```

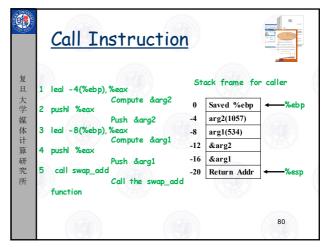
```
Example

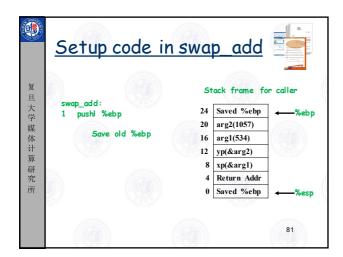
Stack frame for caller int sum = swap_add(&arg1, &arg2):

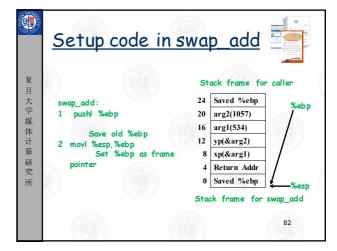
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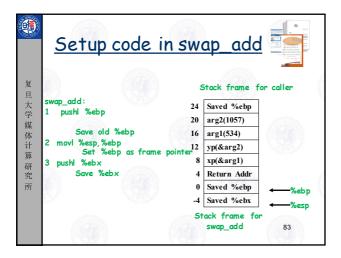


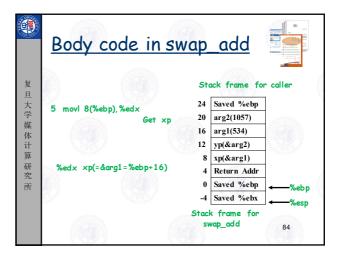


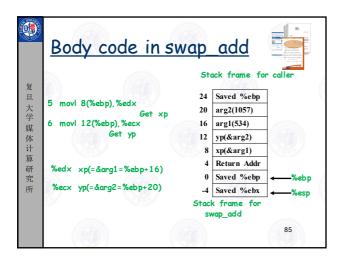


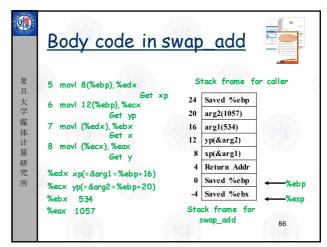


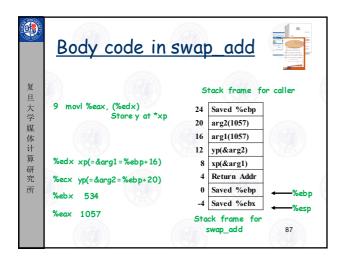


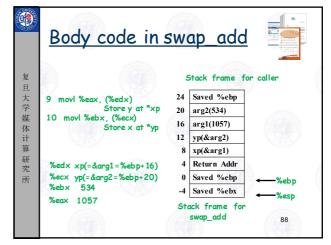


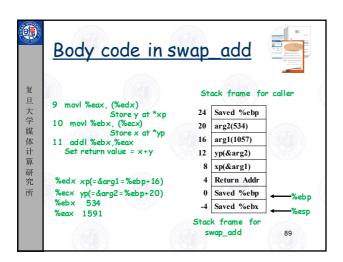


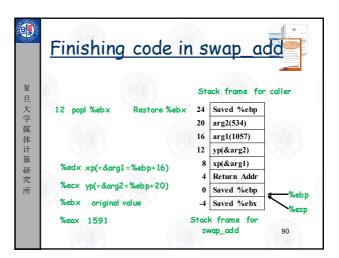


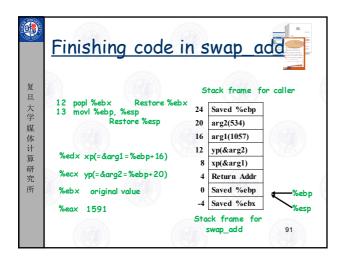


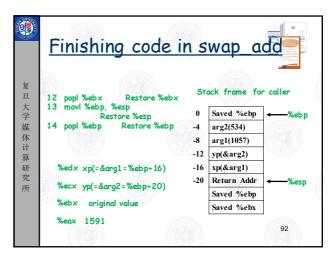


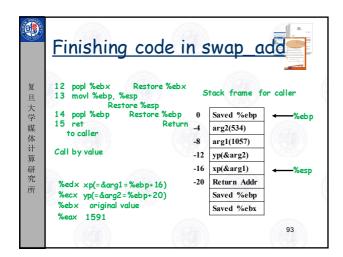


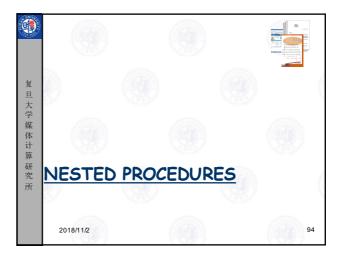


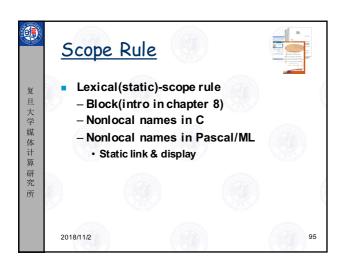


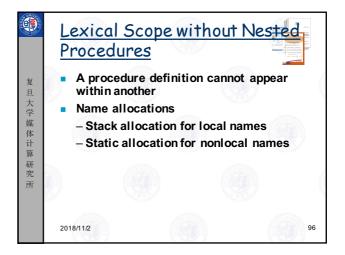


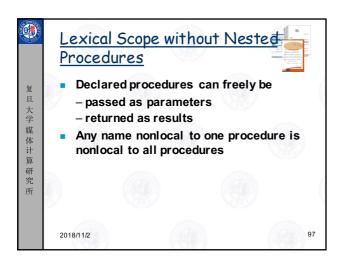


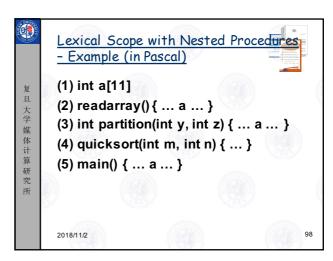












```
Lexical Scope with Nested Procedures
       - Example (in Pascal)
       program sort(input, output);
          var a: array[0..10] of integer;
旦
大学媒体计算
            x: integer;
          procedure readarray;
            var i: integer;
            begin ... a ... end { readarray };
研究
          procedure exchange(i, j: integer);
            begin
               x: = a[i] ; a[i] := a[j] ; a[j] := x
            end { exchange };
       2018/11/2
```

