





Other Incorrect Match Options:

this, 2
local, 4
this, 1
local, 3
this, 0
argument, 3
argument, 4
this, 4
local, 2
this, 3

9 arg |
b arg 2
d local o
e local \
this dummy* argument 0

a arg o Z arg 1 f local o

c local 1

```
Question 3

Consider the following Jack method:

method int blowupstack(int a, int z) 
var string message;
var int d, c;
let c = blowupstack(a,z);
return z;
}
```

What virtual machine code would implement the assignment statement?

Message: (ocal o d: (ocal 1 c: (ocal 2

Correct!

```
push argument 1
   push argument 2
   call blowupstack 2
pop local 2
  push a
   push z
  call blowupstack 2
рор с
   call blowupstack 2
  push argument 1
  push argument 2
pop local 2
   call blowupstack 2
  push a
  push z
рор с
```

```
call blowupstack 2
push argument 1
push argument 2
pop local 3

push argument 1
push argument 2
call blowupstack 2
pop local 3
```

Question 4 2 / 2 pts

Complete the symbol table entries for the variables and parameters in the following **Jack** class:

```
class BankAccount
{
    static int nAccounts;
    static int bankCommission;
    field int id;
    field int balance;
    field string owner;
    method void transfer(int sum, BankAccount from, Date when)
    {
        var int i, j; (ocal o r(
        var Date due;
        let balance = (balance + sum) - commission(sum * 5);
    }
}
```

The symbol has four columns:

Identifier, type, segment, offset.

