

# Advanced Programming

Martijn Vogelaar 1047391  
Gianni Monteban 1047546

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**Exercise 1.** In all these examples, the product of the shape vector matches the length of the data vector. What do you expect to happen, if this condition does not hold?

I expect that the program wouldn't compile

**Exercise 2.** The arguments of `reshape` are vectors, i.e. arrays of dimensionality 1. Can they be specified by expressions themselves?

Yes they can.

```
reshape([], reshape([1],[1]))
```

**Exercise 3.** Given the language constructs introduced so far, can you define an array that would print as

```
reshape ([5,2,2] , genarray ([4] , [0,0,0,0,1]))
```

**Exercise 4.** What result do you expect from the following SAC program?

```
use StdIO: all;
use Array: all;

int main()
{
    a = [1,2,3,4];
    b = [a,a];

    a = modarray(modarray(a, [0], 0), [1], 0);
    b = modarray(b, [0], a);
    print(b);

    return 0;
}

0 0 3 4
1 2 3 4
```