COMP1511 19T1
Week 6, Thursday: Reference and Dereference

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references and indirection
pointers, addresses, memory
Assignment 1: Coco
out now ... start soon, or forever receive the Douglas!
extra help sessions now on (Mon AM, Thu AM, Fri PM),
see WebCMS 3 for details

No Marc!
on week06tue, week06thu, week07tue
lectures by Jashank, instead.
Memory is a linear array of lots of boxes: bytes
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variables are a group of bytes:

```c
int i = 42;
```

variables have size, location
memory is a linear array of lots of boxes: bytes

variables are a group of bytes:

\[ \text{int } i = 42; \]

variables have size, location

variables can store locations of other variables

\[ \text{int } *ip = &i; \]
Reference and Dereference

&
reference

‘where is this variable in memory?’

*
dereference

‘what’s at this location in memory?’