

PROGRAMMING
ADVICES LEARN THE RIGHT WAY

26+ Years of Experience

Mohammed Abu-Hadhoud
MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD

لا تنسى الاشتراك في قناتنا على اليوتيوب ومشاركة القناة مع اصدقائك
لتعم الفائدة للجميع وانقاذ الاف الناس من التشتت وجراكم الله خيرا
لا تنسونا من دعائكم وادعو لوالدي بالرحمة
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اساسيات مهمه لكل مبرمج المتغيرات والثوابت Variables & Constants



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Computer Foundations

Variables

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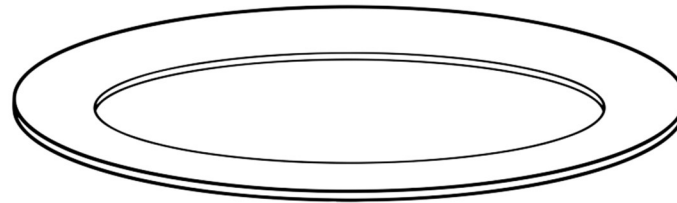
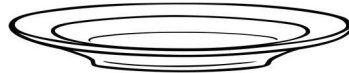
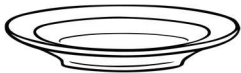
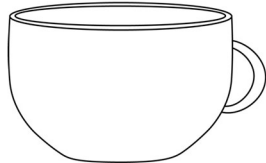


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In the kitchen

Containers



Can you use this for
one Egg?





What are Variables?

Variables are **containers** for storing data values

VARIABLES are used to store data.

Storing information is useful when you want to reuse that information many times or use it at different times while running a program.



Computer Foundations

Variable Types

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Primary Variable Types

1

Numbers

Integers

10 , 20

Floats

5.2 , 2.3

2

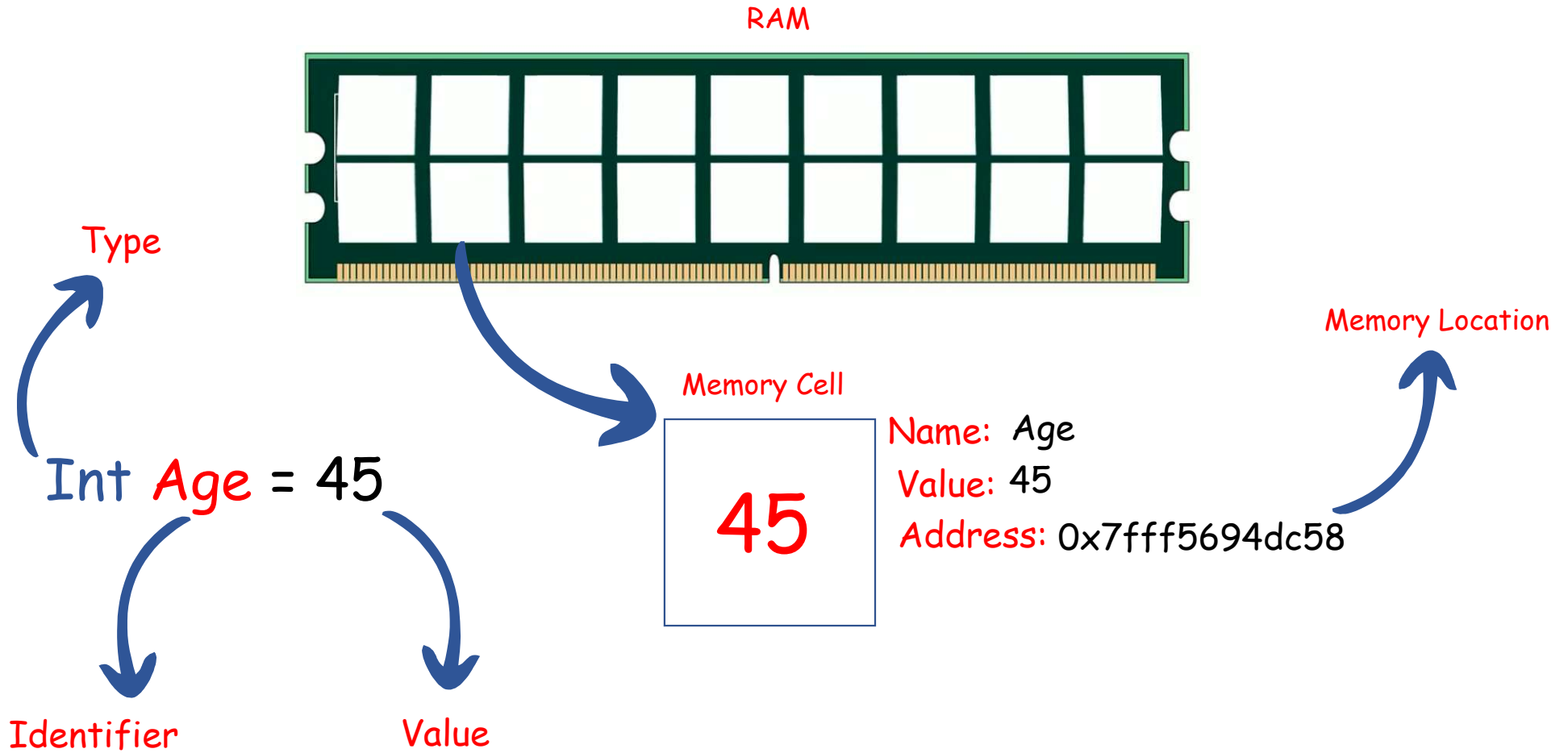
Strings

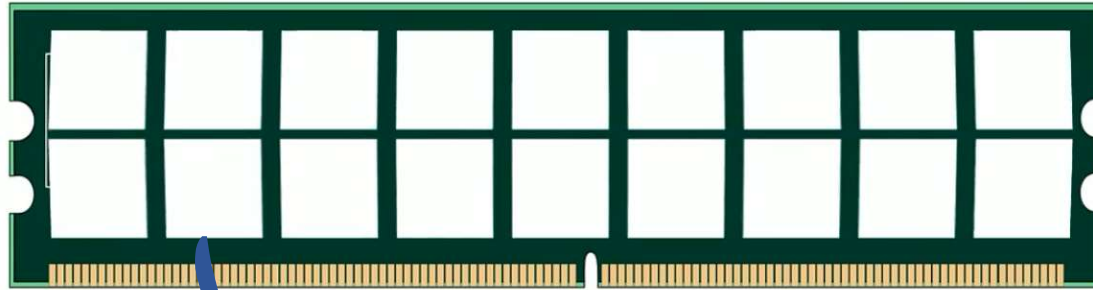
"Mohammed Abu-Hadhoud"

3

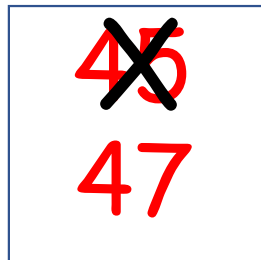
Boolean

True, False





Memory Cell



Name: Age

Address: 0x7fff5694dc58

Int Age = 45

Age = Age + 2

Age = 45 + 2

Age = 47



Computer Foundations

Constants

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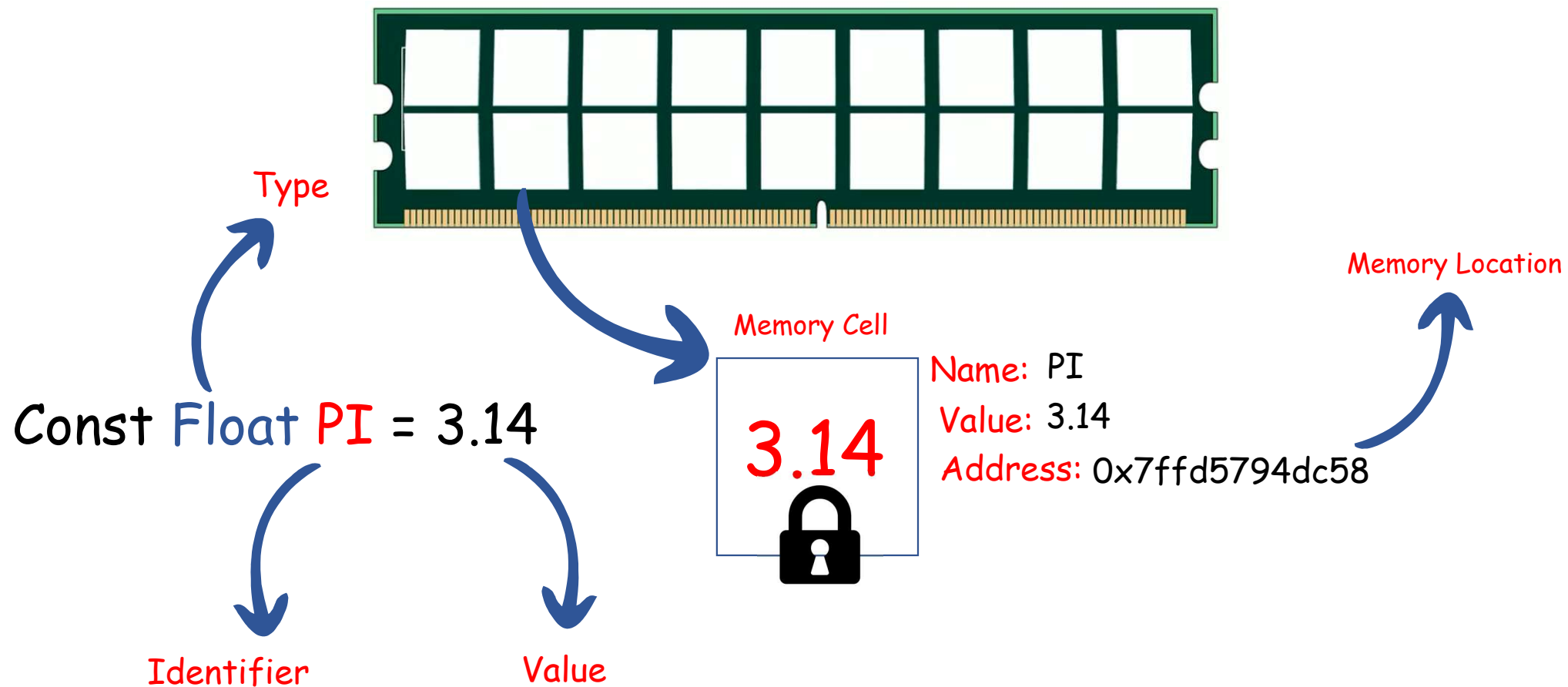


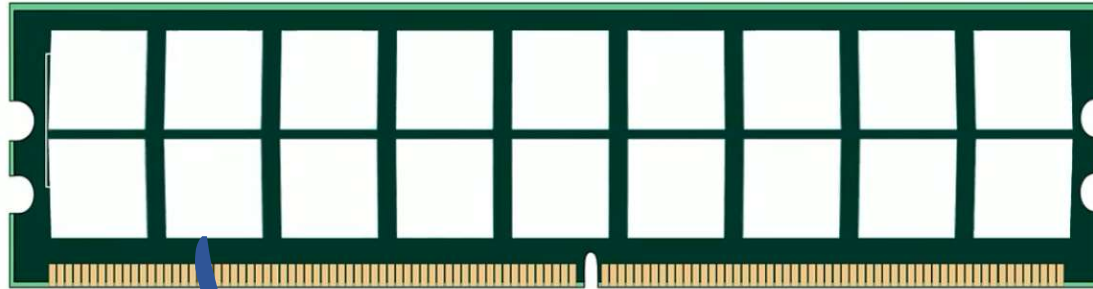
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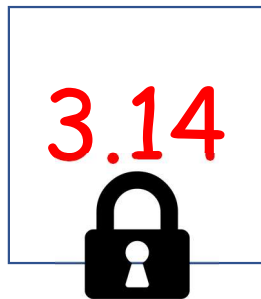
What are Constants?

Constants are containers for storing data values, but they are read only.





Memory Cell



Name: PI

Value: 3.14

Address: 0x7ffd5794dc58

Const Float **PI** = 3.14

~~PI = PI * 2~~

Error



Computer Foundations

Performance Tips

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If you want to drink coffee, then..

**It is ok to Drink
Coffee like this.**

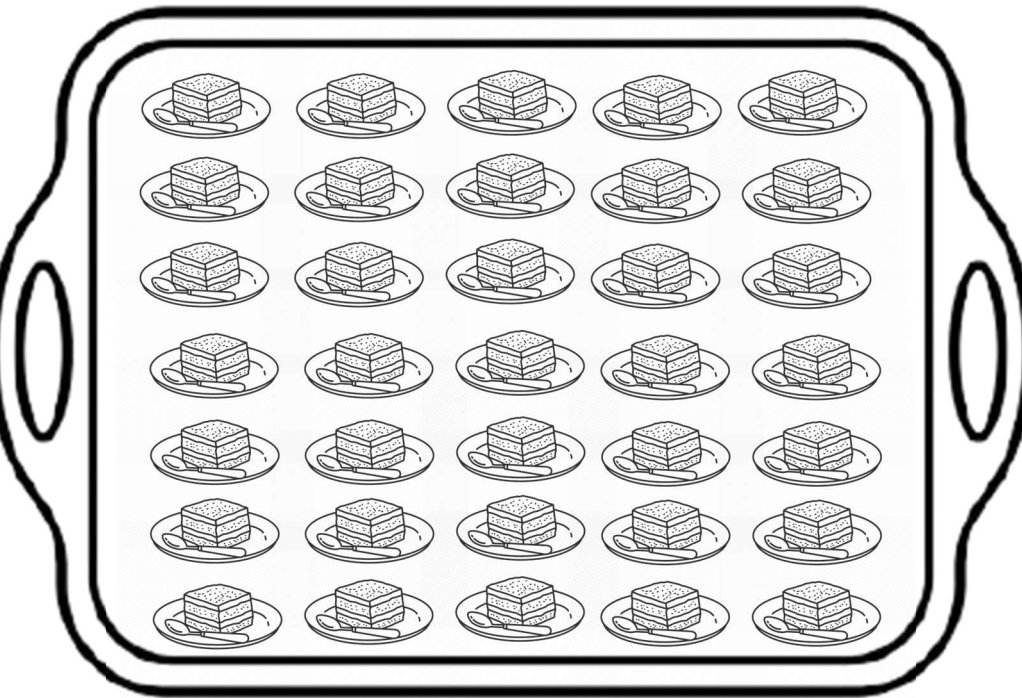


**It is not ok to
drink it like this.**



35

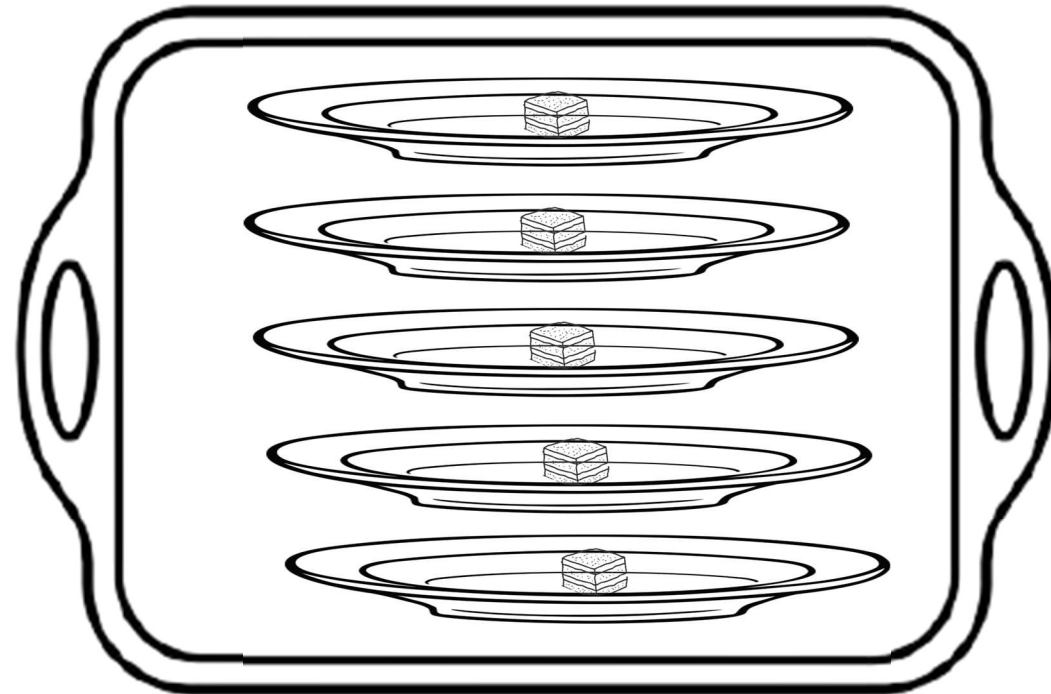
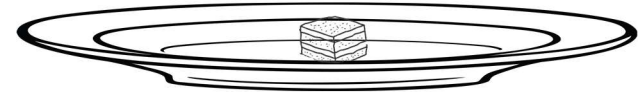
A



1 Visit

5

B



7 Visits



Don't waste memory !!!!!

Age

Human lives 100-150 years

Maximum number you need is 150

4,294,967,295

Homework



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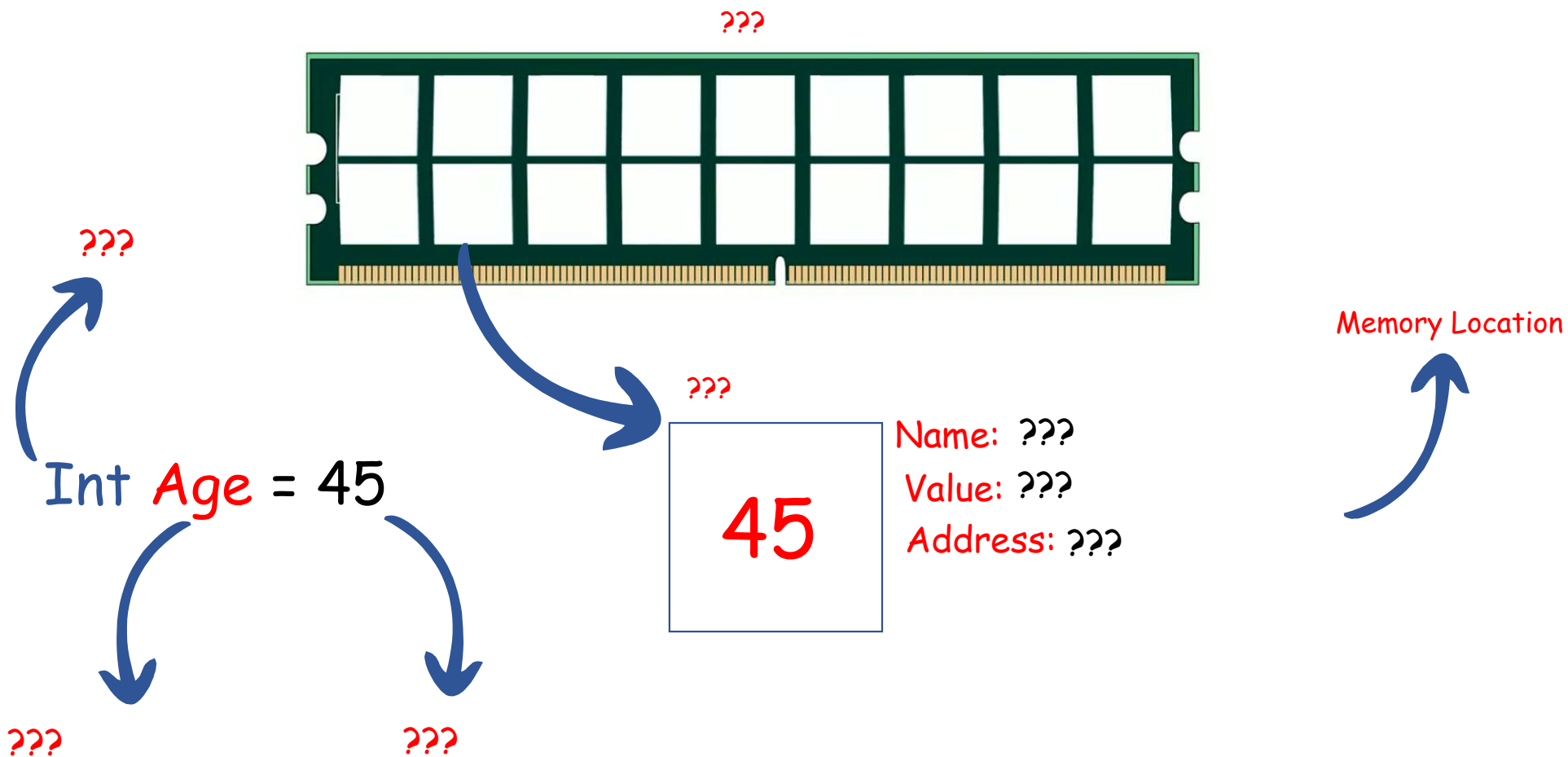
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Answer the following questions:

- What is Variable? And why do we need it?
- What is constant? And why do we need it?
- What is Memory Cell?
- What is identifier?
- What is Memory Address? What is its relation to location?
- Which numbering system used in memory address?
- Mention the primary types of variables?
- What are the number's types? And give an examples?
- What is string? And give an example on it.
- What is Boolean? and give an example on it.

Answer the following questions:

- Are all variables and constants have the same size?
- What happens when you use much larger size than you need in variables?
- Can we modify a variable during the program?
- Can we modify a constant during the program?
- How to make a variable read only?
- Where do the variables and constants get stored?
- What is the difference between Integers and Floats?





Thank You

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