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Address and Data in a Memory







a = 100; a holds an *integer* 100

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Pointer to Pointer Variable



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Integer Pointer Examples (1)



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Integer Pointer Examples (2)

- i can hold an <u>integers</u>
- **pi** can hold an <u>address</u>
- **qi** can hold an <u>address</u>



Array of Pointers (1)



Array name a holds the starting <u>address</u>



Type of each element

Array name b holds the starting <u>address</u>



Type of each element

Array of Pointers (2)



2-D Array (1)



Array name a holds the starting <u>address</u>



Type of each element

c[0], c[1], c[2], c[3] hold the starting <u>address</u>



Type of each element

2-D Array (2)



Pointer

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2-d Array

References

- [1] Essential C, Nick Parlante
- [2] Efficient C Programming, Mark A. Weiss
- [3] C A Reference Manual, Samuel P. Harbison & Guy L. Steele Jr.
- [4] C Language Express, I. K. Chun