ACE 3

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| Opcode | | Description |
| Binary | Mnemonic |  |
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| 0001 | Load X | Load the contents of address X into AC. |
| 0010 | Store X | Store the contents of AC to address X. |
| 0011 | Subt X | Subtract the contents of address X from AC and store the result in AC. |
| 0100 | Add X | Add the contents of address X to AC and store the result in AC. |
| 0101 | Input | Input a value from the keyboard into AC |
| 0110 | Output | Output the value in AC to the display. |
| 0000 | Halt | Terminate the program. |
| 0111 | Skipcond | Skip the next instruction on condition. |
| 1000 | Jump X | Load the value of X into PC. |