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1. Use a sentinel-controlled loop to read 10 positive numbers

Compute and display their sum.

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| Location | Number | Instruction |
| 00 | +1012 | Read A |
| 01 | +2012 | Load A |
| 02 | +4100 | Branch negative to 00 |
| 03 | +3013 | Add B |
| 04 | +2113 | Store B |
| 05 | +2014 | Load C |
| 06 | +3115 | Subtract D |
| 07 | +4209 | Branch zero to 10 |
| 08 | +2114 | Store C |
| 09 | +4000 | Branch to 00 |
| 10 | +1113 | Write B |
| 11 | +4300 | Halt |
| 12 | +0000 | Variable A (input = 0) |
| 13 | +0000 | Variable B (sum = 0) |
| 14 | +0000 | Variable C (counter = 10) |
| 15 | +0000 | Variable D (1) |

1. Use a counter-controlled loop to read seven numbers, some positive and some negative, and compute and display their average.

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| Location | Number | Instruction |
| 00 | +1015 | Read A |
| 01 | +2015 | Load A |
| 02 | +3016 | Add B |
| 03 | +2116 | Store B |
| 04 | +2017 | Load C |
| 05 | +3018 | Add D |
| 06 | +2117 | Store C |
| 07 | +3119 | Subtract E |
| 08 | +4210 | Branch zero to 10 |
| 09 | +4000 | Branch to 00 |
| 10 | +2016 | Load B |
| 11 | +3219 | Divide E |
| 12 | +2116 | Store B |
| 13 | +1116 | Write B |
| 14 | +4300 | Halt |
| 15 | +0000 | Variable A (input = 0) |
| 16 | +0000 | Variable B (sum,average = 0) |
| 17 | +0000 | Variable C (counter = 0) |
| 18 | +0000 | Variable D (1) |
| 19 | +0000 | Variable E (7) |

1. Read a series of numbers, and determine and display the largest number.

The first number read indicates how many numbers should be processed.

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| Location | Number | Instruction |
| 00 | +1016 | Read A |
| 01 | +1017 | Read B |
| 02 | +1018 | Read C |
| 03 | +2018 | Load C |
| 04 | +3117 | Subtract B |
| 05 | +4108 | Branch negative to 08 (if B > C) |
| 06 | +2018 | Load C |
| 07 | +2117 | Store B |
| 08 | +2019 | Load D |
| 09 | +3020 | Add E |
| 10 | +2119 | Store D |
| 11 | +3116 | Subtract A |
| 12 | +4214 | Branch zero to 14 |
| 13 | +4002 | Branch 02 |
| 14 | +1117 | Write B |
| 15 | +4300 | Halt |
| 16 | +0000 | Variable A (input number count) |
| 17 | +0000 | Variable B (largest number) |
| 18 | +0000 | Variable C (input) |
| 19 | +0000 | Variable D (counter = 0) |
| 20 | +0000 | Variable E (1) |