CS 112

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Assignment 5

(16 pts) 1. Trace the following arithmetic sequences by filling in what each variable store after each JavaScript statement is executed. A simple example is given below

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| **JavaScript Statement** | **Variable State** |
| X=24; | X=24 |
| Y=(100\*10) + 24; | X=24, Y=1024 |
| X=Y-1; | X=1023 , Y=1024 |

(7 pts) a.

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| **JavaScript Statement** | **Variable State** |
| X=(100\*2)+25; | X=225 |
| Y=300/6+2; | X=225 , Y= 52 |
| X=X/5; | X= 45, Y= 52 |
| Y=X-Y; | X= 45, Y= -7 |

(9 pts) b.

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| **JavaScript Statement** | **Variable State** |
| X= 1000; | X=1000 |
| Y= X/2+50; | X=1000 , Y=550 |
| Z=Y/X; | X= 1000, Y=550 , Z=0.55 |
| Y= Z; | X= 1000, Y=0.55 , Z=0.55 |