LAB 2 DEMO - Simple System. Timing Analysis, and a Little more c

Reviewer Team		
An Air Interlock System – A Design Problem (170)		
The Interlock	35	
Two bidirectional ports	20	
Can open if pressure differential less than 0.1 atm	5	
Interlock can be pressurized up to 16,000psi and depressurized to 13.0psi	10	
On Arrival	60	
Bathysphere signals 5 min before arrival	5	
If chamber empty – inner and outer ports closed and sealed	5	
Behaviour if not empty	5	
Chamber pressurized to less than 0.1 atm - interior to exterior: outer port	5	
Pressurization takes 7 minutes	5	
Pressure less than 0.1 atm outer port opened	5	
Bathysphere enters	5	
Outer port closed and sealed	5	
Chamber depressurized to less than 0.1 atm - interior to interior: inner port	5	
Depressurization takes 8 minutes	5	
Pressure less than 0.1 atm inner port opened	5	
Aquanauts enter	5	

On Departure	75
Outer port closed and sealed	5
If chamber empty – inner and outer ports closed and sealed	5
Behaviour if not empty	5
Chamber depressurized to less than 0.1 atm - interior to interior: inner port	5
Inner port opened and aquanauts enter interlock and bathysphere	5
Inner and outer ports closed and sealed	5
Bathysphere signals 5 min before departure	5
Chamber pressurized to less than 0.1 atm - interior to exterior: outer port	5
Pressurization takes 7 minutes	5
Pressure less than 0.1 atm outer port opened	5
Bathysphere exits	5
Outer port closed and sealed and interlock depressurized to 1 atm	5
Chamber depressurized to less than 0.1 atm - interior to interior: inner port	5
Depressurization takes 8 minutes	5
Pressure less than 0.1 atm inner port opened	5

C Language Functions (20)

Perform and display the computation using pointers to all variables:

$$result = ((A - B)*(C+D))/E$$

Fully functional