**Case1:**

**Enter the time and force pairs. Please input at least 2 pairs**

**3**

**Input the time moment in seconds**

**5**

**Input the respective force (in Newtons) of time moment 5.0 .**

**The force needs to be between -300N and 300N**

**200**

**Input the time moment in seconds**

**7**

**Input the respective force (in Newtons) of time moment 7.0 .**

**The force needs to be between -300N and 300N**

**277**

**Input the time moment in seconds**

**13**

**Input the respective force (in Newtons) of time moment 13.0 .**

**The force needs to be between -300N and 300N**

**200**

**Prepare to insert the masses of the objects as well as their initial positions.**

**Insert the mass for M1. It has to be between 0 and 10**

**8**

**Insert the initial position of the M1.**

**x coordinate**

**0**

**y coordinate**

**0**

**Insert the mass for M2. It has to be between 0 and 10**

**3**

**Insert the initial position of the M2.**

**x coordinate**

**-4**

**y coordinate**

**7**

**Insert the mass for M3. It has to be between 0 and 10**

**5**

**Insert the initial position of the M3.**

**x coordinate**

**2**

**y coordinate**

**3**

**Prepare to insert the friction values**

**the values must be between 0 and 0.5**

**Please input friction myu1**

**0.5**

**Please input friction myu2**

**0.5**

**Please input friction myu3**

**0.2**

**Prepare to insert the time moment of the dispostition for the objects M1, M2, and M3.**

**7**

**M1 is at position [ -5.829861394211158 ; 0.0 ] at time 7.0**

**M2 is at position [ -241.36434977578483 ; -230.36434977578483 ] at time 7.0**

**M3 is at position [ 2.0 ; -234.36434977578483 ] at time 7.0**

**Case2:**

**Enter the time and force pairs. Please input at least 2 pairs**

**3**

**Input the time moment in seconds**

**0.825**

**Input the respective force (in Newtons) of time moment 0.825 .**

**The force needs to be between -300N and 300N**

**-273**

**Input the time moment in seconds**

**3**

**Input the respective force (in Newtons) of time moment 3.0 .**

**The force needs to be between -300N and 300N**

**134**

**Input the time moment in seconds**

**8.734**

**Input the respective force (in Newtons) of time moment 8.734 .**

**The force needs to be between -300N and 300N**

**112**

**Prepare to insert the masses of the objects as well as their initial positions.**

**Insert the mass for M1. It has to be between 0 and 10**

**4**

**Insert the initial position of the M1.**

**x coordinate**

**-1**

**y coordinate**

**-2**

**Insert the mass for M2. It has to be between 0 and 10**

**5**

**Insert the initial position of the M2.**

**x coordinate**

**3**

**y coordinate**

**4**

**Insert the mass for M3. It has to be between 0 and 10**

**9**

**Insert the initial position of the M3.**

**x coordinate**

**-4**

**y coordinate**

**5**

**Prepare to insert the friction values**

**the values must be between 0 and 0.5**

**Please input friction myu1**

**0.354**

**Please input friction myu2**

**0.492**

**Please input friction myu3**

**1**

**Invalid friction was inserted**

**the values must be between 0 and 0.5**

**0.1**

**Prepare to insert the time moment of the dispostition for the objects M1, M2, and M3.**

**21**

**M1 is at position [ 146.35020787893077 ; -2.0 ] at time 21.0**

**M2 is at position [ 873.4724102444652 ; 874.4724102444652 ] at time 21.0**

**M3 is at position [ -4.0 ; 875.4724102444652 ] at time 21.0**

**The above are the interesting cases that I wanted to consider.**