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#!/usr/bin/env python2
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import numpy as np
#Question 6
#for contact 1
a = np.array([[-1, 0, 0]])
b = np.array([[0, 0, -1],[0,1,0],[1,0,0]])
#for contact 2
a = np.array([[1, 0, 0]])
b = np.array([[0, 0, 1],[0,1,0],[-1,0,0]])
c = np.cross(a,b)
zero = np.zeros((3,3))
temp = np.vstack((zero,b))
Ad = np.hstack((np.vstack((b,c)),temp))
B = np.array([[0],[0],[0],[0],[0],[1]])
out = np.dot(Ad.T,B)
  = np.array([[ 0., 0], [ 0., 0], [ 0., 0],
         [1., -1],
[0., 0],
           0., 011
f = np.array([[-2], [-5]])
F = G.dot(f)
#Question 7
a = np.array([[-1, 0, 0]])
b = np.array([[0, 0, -1],[0,1,0],[1,0,0]])
#for contact 2
a = np.array([[1, 0, 0]])
b = np.array([[0, 0, 1],[0,1,0],[-1,0,0]])
c = np.cross(a,b)
zero = np.zeros((3,3))
temp = np.vstack((zero,b))
Ad = np.hstack((np.vstack((b,c)),temp))
B = np.zeros((6,3))
B[3:,:] = np.identity(3)
out = np.dot(Ad.T,B)
```