Ejerciciospdf

April 22, 2018

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In [1]: #Ejercicio 12
In [2]: def moneda_trucada(p):
            if random() < p:</pre>
                return 0
            return 1
In [58]: res = 0
         for int in xsrange(1000):
             for i in xsrange(100):
                 if moneda_trucada(0.1) == 0:
             if i == 99:
                 res = res + 1
         print res/1000
0
In [53]: #Ejercicio 13
Out[53]: 1
In [93]: def coprimos_aleatorios(N):
             a = randint(2,N)
             b = randint(2,N)
             return a,b,gcd(a,b)
In [95]: def comprobar_coprimos(N):
             res = 0
             for int in xsrange(10000):
                 a,b,mcm = coprimos_aleatorios(N)
                 if mcm == 1:
                     res = res + 1
             return res,(res/10000).n()
In [98]: for i in xsrange(2,11):
             print comprobar_coprimos(10^i)
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(6036, 0.6036000000000000)
(5998, 0.599800000000000)
(6048, 0.604800000000000)
(6070, 0.607000000000000)
(6229, 0.622900000000000)
(6088, 0.608800000000000)
(6091, 0.60910000000000)
(6052, 0.605200000000000)
(6043, 0.60430000000000)

In [99]: #Ejercicio 14

In []:
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