

《算法-实验三》

主要考察贪心算法与动态规划。

背景说明

有一天，我无意中获得了预知一只股票未来若干天走势的超能力。也就是说，我拿到了一个数组，它的第 i 个元素是股票在第 i 天的价格。

在我们村，一只股票一天的买入和卖出价格都是一样的，且每次只能买入一份股票。当然每次卖出的时候都需要交一定的手续费。

我听说炒股的秘诀在于低价买高价卖，交易次数不限，现在希望大家可以编一个程序帮我算一算，我依靠这个超能力最多能捞多少。

注意：不能同时参与多笔交易（必须在再次购买前出售掉之前的股票）。

核心函数：以c语言为例，`int maxProfit(int* prices, int pricesSize, int fee);`

参数说明：`prices`是价格波动数组，共包含`pricesSize`个元素，每笔手续费`fee`是一个自然数。返回值为我最多能获取的利润。 $0 < prices[i] < 50000$ ， $0 < pricesSize \leq 50000$ 。

检查内容说明

1. 要求分别使用动态规划和贪心算法实现（如果想不到怎么实现可以向助教索要提示），两种算法的函数名分别为`greedy_maxProfit`, `dp_maxProfit`。
2. 在主函数中保存样例输入，如`prices0 = [1], fee0=0; prices1 = [1,3,7,5,10,3], fee1=3.....`便于函数参数传递。
3. 实现语言不限。

验收形式：

验收时助教会检查源代码，并要求程序现场正确运行一遍。助教抽查样例数据以确定算法的正确性。

验收时间：

5月27号、6月3号（周四）晚18:30-21:30

验收规则：

在规定的验收时间内，助教会全程在实验机房。检查需满足验收形式的要求，助教会提出若干个相关问题，需要同学们及时回答，较长时间内仍未回答正确将会有代码抄袭的嫌疑，助教会进一步询问实验和代码的细节问题。检查完毕后，会在现场签名以及登记分数。

实验样例数据

用于测试算法的正确性。

样例输入0：

[1]
0

预期结果0：

0

说明：只能知道当天的价格，无法获利。

样例输入1:

[1,3,7,5,10,3]

3

预期结果1:

6

说明: 只第一天买, 第五天卖。获利 $10-1-3=6$ 。这里的-3是减去手续费。

样例输入2:

[10,2,62,4,92,26,37,88,33]

100

预期结果2:

0

说明: 手续费太高, 不买比较划算。

样例输入3:

[1, 3, 2, 8, 4, 9]

2

预期结果3:

8

说明: 能够达到的最大利润:

在第一天买入 $\text{prices}[0] = 1$

在第四天卖出 $\text{prices}[3] = 8$

在第五天买入 $\text{prices}[4] = 4$

在第六天卖出 $\text{prices}[5] = 9$

两笔交易总利润: $((8 - 1) - 2) + ((9 - 4) - 2) = 8$.

样例输入4:

[309,400,85,303,261,350,317,386,6,413,187,92,424,426,18,402,134,198,13,376,376,40,118,500,318,286,102,150,353,13,194,437,253,269,128,161,130,321,62,53,67,256,8,230,315,172,307,127,260,447,267,222,241,205,404,359,47,469,398,487,388,410,22,110,35,461,5,11,77,455,188,207,489,305,67,412,56,11,165,158,190,389,113,228,210,499,425,296,302,102,276,77,202,330,20,478,233,323,143,276]

260

预期结果4:

2149

样例输入5:

[1036,2413,2776,825,2640,31,1560,2917,4282,783,3146,2600,1939,694,4284,3881,554,167,372,4620,3037,1175,1075,3845,4981,4495,3406,4228,2807,4774,4526,3914,2633,3762,1570,2334,616,1648,1914,2900,349,2428,4013,1964,4020,1882,629,240,2595,2902,3419,292,224,4437,4918,632,3701,3840,3996,2129,3345,3979,1954,781,1576,1084,3250,4517,3106,2133,309,4520,2225,4366,4628,1303,4373,1266,3181,558,3855,3447,4335,2115,4603,661,1715,3972,2846,342,686,787,273,2575,100,2860,3587,4236,3862,2238,3471,3123,431,4489,1551,596,4037,4986,594,2386,326,628,1363,2377,4986,3780,3853,2670,2852,3519,2998,4083,3392,2394,1083,3958,4082,1506,2322,2715,4901,2555,4097,3748,4717,3901,3329,4616,3334,2603,3705,631,3541,555,508,464,4495,4463,3616,31,2177,3307,1011,2759,751,1537,1000,292,3921,1442,2726,4677,792,82,2580,609,4758,3190,1958,913,955,1259,1634,4729,2672,1761,1467,2347,4295,2049,4708,1452,3411,1428,4078,2627,3785,2432,2916,492,1108,1691,972,3823,4086,2115,1925,1454,291,3266,300,2539,2681,2084,4633,1084,1061,1043,1304,2205,410,4332,2567,703,529,4273,3684,308,3164,4876,3108,4993,4555,1237,4753,549,2795,3426,819,2897,825,2514,3419,1854,3209,3766,2794,4117,4668,2162,1571,2446,1480,974,1090,390]

3,4655,4452,1451,2953,1241,842,1750,3847,3053,4395,4338,1493,1660,1569,3418,3029,4416,2056
,2283,3392,2032,4354,803,4959,3630,2080,1553,873,4050,1986,2328,55,4602,1430,4238,4326,338
2,4845,4968,1903,423,4717,2427,4618,2644,4541,380,3404,4880,2577,1640,189,2692,3788,818,40
91,4730,611,1776,3594,4746,580,2083,4183,3355,3063,658,4532,3318,3902,556,2249,4653,2118,1
529,4793,4935,4259,3542,1705,2839,1436,3918,564,3277,2988,2460,3213,4445,4238,1954,2213,17
48,939,1149,1408,2408,1781,1618,1457,2123,3366,826,2094,16,1161,3337,1864,433,1303,4800,46
67,4769,1026,3440,1072,4725,6,1263,4184,2728,1315,2091,3032,2071,2672,4557,1916,638,2133,2
687,2408,1677,344,697,1699,8,480,655,2656,4983,455,1611,1726,692,392,1921,2555,3549,3740,38
40,3062,3420,2428,1169,4570,389,3509,2169,3290,1680,1733,1765,2518,3260,3644,765,4521,269,
2501,4014,1743,239,4908,1656,4433,3647,2612,4872,387,3091,4011,564,4421,810,3623,3451,4108
,1428,475,3755,4484,3527,3062,4706,3424,2678,2411,4446,2556,4305,1305,646,1458,4471,1689,4
556,3851,1245,1197,3785,1175,2904,302,2422,4302,2148,2338,4288,375,2824,1623,3717,1142,425
4,192,783,1963,2225,1209,1746,3072,2737,4640,4919,3614,804,4029,1751,2360,3789,4445,2283,2
769,2833,4452,2978,2809,4532,4365,2124,3541,2658,2902,4688,3980,1543,4041,1420,1452,1284,6
6,19,947,932,3244,3374,1910,2561,3466,4104,1667,589,3048,730,1770,1241,2270,4016,2835,604,4
771,514,3854,3427,1875,2038,3067,3216,4732,3735,4440,2855,4958,4569,1685,3539,4589,3512,31
43,898,3004,3072,2573,3163,2522,3927,330,3874,363,1900,1629,1156,4259,2747,3445,4513,2867,
52,3870,1761,619,3308,4380,1101,2592,4852,4140,174,3997,4617,3500,3028,907,2355,759,374,24
29,412,2132,3973,3583,3028,2070,2235,2659,1053,2558,753,1221,1185,2225,1593,3554,3703,332,
2843,3349,3871,4389,6,2768,4382,902,417,191,2107,2838,4958,3905,4966,3937,1105,4150,2682,3
396,818,2297,2077,2032,3340,2478,127,4379,954,2593,3454,1230,2308,3694,2179,4134,653,3808,
4043,2069,660,4515,4189,4876,1784,4166,342,1766,3305,1980,1909,4115,4115,1461,2061,838,311
2,122,656,4856,4822,3468,2111,2700,4124,4663,2948,3029,4182,3847,4760,1323,1505,308,128,87
4,583,2671,1315,747,2682,2841,67,2712,2703,4471,2952,3081,464,655,57,1460,1395,682,2447,259
0,4624,1578,64,4060,2975,1236,831,3313,1432,2589,3777,1868,1720,45,3311,4532,2672,454,752,4
839,4717,748,4323,2999,3491,631,1407,1453,4611,4263,3366,584,2014,2396,1902,4569,3002,1938
,3998,4093,1899,3071,2815,1974,302,1641,2836,565,264,1332,3319,3689,2181,3873,4883,3849,19
91,4633,4556,3866,142,2903,3181,740,3311,2071,280,714,2440,3950,290,3580,738,1604,3631,198
9,1299,836,1913,224,1066,1741,1551,1735,4601,2024,4570,4192,1723,3949,3696,1419,1760,697,4
764,3405,4443,199,717,4568,3252,2016,2151,1741,2613,2736,4053,814,4282,3392,615,1998,3294,
3663,559,4278,4626,55,1418,2056,3191,3181,1732,1887,2517,3180,2154,2166,3096,3930,2721,433
2,427,4332,4237,3928,2262,4657,2202,922,3711,1921,4728,2236,2441,622,233,293,1466,1891,122
2,3693,3261,2605,3486,102,3612,1897,2698,3524,3567,613,3834,1583,1482,4734,2339,752,1428,4
121,3267,3518,4652,3119,1818,4596,3181,3159,4069,3375,3762,1386,3054,3052,67,2246,1493,273
8,2835,4906,303,1107,3111,1525,1739,437,2941,545,1458,993,1871,640,4047,2017,4971,4917,701,
4811,4335,3221,4187,4414,756,3069,3052,812,3135,928,1264,3356,4518,2136,2691,2638,3156,490
9,2944,3920,4609,1856,654,4643,2932,309,3613,4479,4173,1848,165,1171,592,3233,3151,4009,39
52,2624,38,2616,2056,841,1764,4667,1526,125,3963,933,3951,2151,2110,4666,1000,1985,3868,27
35,635,277,1129,572,2136,980,2731,556,3012,2900,2180,1912,2799,1771,4441,2666,3958,4381,36
77,4218,1276,3512,4868,4579,2307,3952,3544,651,1300,218,489,2837,3737,509,3421,879,4353,46
95]

655

预期结果5:

595352

样例输入6:

[32162,39073,18489,49500,36417,961,40898,37850,25500,29045,46464,21210,18488,44218,17405
,15001,22018,11677,20877,31870,33683,18949,26506,35823,49431,5215,41907,31923,26514,1318
8,14880,21567,37416,15836,27200,6624,47529,36404,100,34636,39871,8624,32317,15232,669,39
777,6522,13035,29082,22377,46347,6105,13918,23569,616,13484,18804,24177,37042,20649,3024
2,22759,21617,18694,21604,49346,27034,9370,18,10658,18951,29535,46246,41942,44213,35274,
19406,2234,22064,20033,12706,41546,16827,23607,46009,24550,25560,44463,44938,37794,2378

3,3012,26553,35562,29390,21474,669,33842,14837,579,23922,24238,40761,48610,27126,15560,2
3318,12767,47069,17686,35223,7681,12566,29278,11728,41026,7761,32498,19291,15065,7395,43
753,36470,36946,38489,4757,39747,38783,10284,2309,45388,39969,13880,22747,1237,30386,250
74,24097,4233,47583,1918,15293,47088,29948,12907,30732,43743,3300,24235,23967,26990,6763
,49530,44015,29156,20774,8168,1183,47093,33442,14239,34415,264,32583,12326,35150,45793,3
267,41999,33365,17699,37086,358,34667,929,37282,26688,12881,23053,5949,49724,19345,1339,
4673,26126,6568,47597,8053,29416,34549,29823,36635,26309,40420,7600,28765,22998,369,2104
6,2743,49673,36740,49105,4180,25974,30280,39634,28975,23554,25972,30198,23026,2690,22177
,36314,8441,2218,18479,18525,39507,47800,49957,20803,38382,4136,10922,49576,35451,27483,
38304,7184,33579,10998,17992,31915,26294,3988,39168,28765,4645,17380,14698,5301,18738,38
058,219,31496,13391,21395,19352,32680,24999,20079,35669,27306,22756,36144,34062,17404,43
631,33195,861,31895,15303,7972,31543,35094,36585,20109,44507,24476,30870,15907,38790,112
16,30163,27188,35898,16511,16286,17012,49654,49343,38515,4053,40764,38222,11793,29053,76
39,45018,27002,19253,49919,34175,1075,47340,4648,46971,36261,38357,13945,33389,20831,423
86,29610,42273,19591,27754,46675,34700,39690,10230,47223,11748,16270,26001,31567,45402,6
406,46554,30576,37354,25360,49003,29374,42655,12026,44693,44618,47329,32978,43121,37092,
1607,1366,10406,10045,11727,5251,2716,4629,47324,8574,42775,2265,26444,8218,38803,38320,
10528,14483,3548,43604,34909,12154,7246,16571,28249,44619,27343,45968,47148,6180,41344,3
7274,34651,47169,41750,48863,13584,850,639,10788,30575,25758,25329,22655,45648,280,27250
,45605,24317,7119,29614,13845,2425,12857,41857,27107,25460,21290,33317,21844,9563,7173,1
4596,18943,731,43859,18596,36379,29436,6926,36085,15940,35113,30335,22882,10946,17390,20
72,48017,13884,32350,8250,21221,12777,8029,10114,9765,29318,48553,24716,18000,7719,29652
,46393,41326,31263,33710,31550,15098,20811,635,5192,19315,18572,6415,5317,7971,14481,492
85,38256,30354,39318,18292,22036,4381,17425,7949,12966,9484,21218,42547,37697,40635,4857
,21518,34082,16120,46451,34436,211,46750,18807,43674,14036,29849,5493,1642,8399,2943,888
4,24729,43812,45903,9478,1546,7910,39595,4974,3378,44053,28289,42751,19901,41119,31045,2
3352,48102,38988,21966,31137,48903,5254,23000,34035,14614,21991,40640,33691,38168,41833,
41079,19020,4892,34521,42561,44959,22537,26249,42741,15929,49053,26064,14707,19408,3745
3,32539,45339,35502,9809,45870,34584,9610,22988,29864,26402,19394,18786,18236,35889,2935
4,11042,21960,31898,19482,42258,41520,15616,38699,24266,58,32598,5242,9844,24417,5158,83
29,26122,12613,40659,38480,3343,30836,42215,15836,44484,13955,39844,38890,3780,44010,193
13,18263,8878,41488,31327,2103,45524,45374,15040,25004,46131,9504,42369,1243,4201,11727,
14344,24570,8049,25975,32117,40549,37364,44890,35311,5784,42689,40386,11048,43278,3919,2
3411,20050,35117,32125,15956,24806,11075,49981,41234,8486,34821,20346,37022,19271,6657,1
2734,36304,30310,9025,24089,40503,25823,47772,38257,42894,29546,9941,34756,9889,27920,26
908,5669,48931,46405,16956,43806,43133,46227,39731,43581,5021,26927,35818,32274,18181,25
917,13804,45314,11089,13426,39132,38303,18465,39658,43926,32139,24488,36529,16616,36317,
47501,31067,42467,11006,22901,1301,18958,45761,38440,43522,6129,23209,49502,47015,18849,
37752,27069,5816,6418,26798,31541,43221,18101,48090,22368,3827,6454,46771,16092,28511,69
76,17808,45150,29369,48344,17154,2217,48189,3796,35895,33179,14742,47132,36726,10382,337
91,25810,48846,38041,7001,28847,47897,30058,30476,22352,32430,13522,3801,36944,1886,1872
8,34291,30060,49821,32282,5430,39877,32960,38379,2274,13255,2955,44254,41773,4261,29770,
23220,31388,26994,23589,16164,16676,33570,45413,20007,13523,15128,11695,7000,36997,707,1
3727,32932,29473,49412,12250,1345,13437,40978,43346,29736,45577,36728,43944,45785,35035,
19314,20202,37228,40249,23169,48497,5903,44932,16627,43131,105,20057,48690,23176,39840,4
1758,31618,23977,36828,9795,47891,48439,22909,12817,9075,49769,46650,42907,18655,27485,3
7549,29811,31120,40744,22964,32398,19474,36120,35486,211,39674,8279,29528,2277,9579,4288
5,26482,30695,27225,8315,5480,22628,11786,44775,26583,40384,29217,33496,9443,10784,21094
,36368,9890,10854,38781,12377,25249,4956,9435,36860,22901,32889,7784,25834,33811,38641,3
8957,2220,37349,49535,42439,5493,29769,20476,24042,21855,42375,28400,49547,7818,27117,33
160,36571,33021,39940,46926,48298,42831,21099,35366,16179,5389,42193,26330,1176,38320,36
972,38281,20548,26123,15618,17363,37451,45883,27540,49253,10236,2083,40250,14529,41264,2

1208,5889,26708,3596,40896,26164,34238,41577,25172,41205,26774,17781,25742,30854,28014,4
640,37705,165,1787,27891,663,42438,44953,35066,10054,16,47053,1286,7190,26695,38437,2399
4,33219,23488,13467,15794,25695,29099,32396,7550,33526,39145,39644,4395,5451,27525,44869
,43512,14945,1997,5848,45753,33560,46609,46660,11821,36264,18651,23227,39889,24976,26815
,43107,46143,40634,27610,17274,13625,44173,22720,30747,36786,4930,4160,11019,45289,43307
,5166,37631,38856,37790,39210,20734,49575,31392,1900,45494,26022,13294,17965,32674,27727
,25624,13445,13468,42450,4251,43690,32191,18120,32991,5664,553,44920,32073,15945,3656,30
024,46110,25265,3309,40123,48087,10759,17906,22896,21050,43736,37056,6496,37298,19946,19
073,5261,8342,40000,35535,40075,33803,27446,11262,31593,43450,41090,41914,3114,46491,170
25,37966,7751,45249,7938,6326,32872,41611,3076,35917,15982,26506,643,25384,11247,5241,31
186,37674,42256,39045,21555,46704,17780,7776,36497,266,18081,16431,46946,13233,10000,457
99,44508,16059,8192,46488,35880,46300,21831,15018,14698,45732,25256,3495,22499,20034,445
15,22784,24017,42651,22071,18024,23855,25636,14261,44785,25263,10002,31115,25264,19229,1
2756,4270,25975,28804,18027,18402,19711,12337,6084,1367,38536,48759,14254,45815,41094,38
310,8966,7383,4122,19800,13650,38915,23676,4126,45276,20171,22052,28341,27931,30834,1171
2,17121,20265,40340,48259,31007,1668,40476,11432,42718,34455,19272,9129,35527,1629,43805
,35630,34278,44877,40546,28559,36644,32033,30923,26104,5108,12774,26499,27329,11564,3526
6,21367,28997,11797,17606,3400,9184,26961,41730,28790,37506,38982,34708,21403,25962,2639
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预期结果6:

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