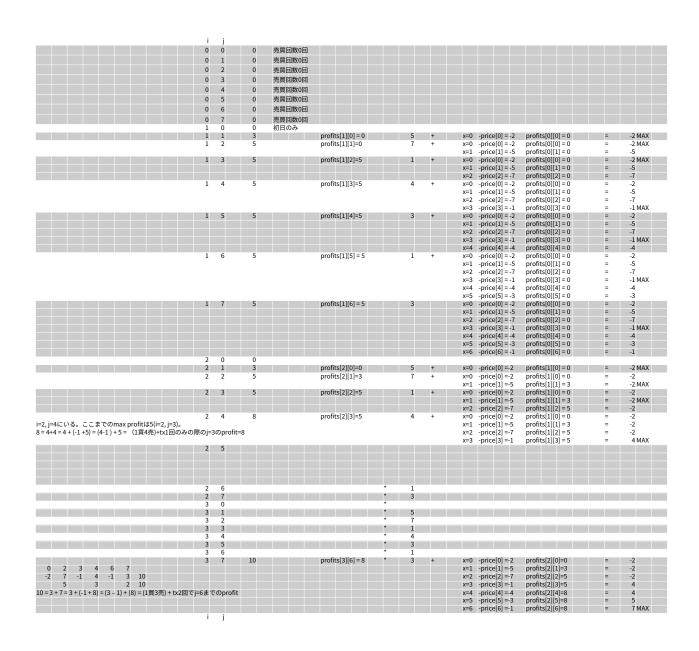
2



	i i								
	0 0	0							
	0 1	0							
	0 2	0							
	0 3	0							
	0 4	0							
	0 5	0							
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	1 1	1	profits[1][0]=0	2	+	x=0 -price[0] = -1	profits[0][0] = 0	=	-1 MAX
	1 2	1	profits[1][1]=1	1	+	x=0 -price[0] = -1	profits[0][0] = 0	=	-1 MAX
						x=1 -price[1] = -2	profits[0][1] = 0	=	-2
	1 3	1	profits[1][2]=1	2	+	x=0 -price[0] = -1	profits[0][0] = 0	=	-1 MAX
tx1回成約があり更新ならず						x=1 -price[1] = -2	profits[0][1] = 0	=	-2
						x=2 -price[2] = -1	profits[0][2] = 0	=	-1
	1 4	1	profits[1][3]=1	1	+	x=0 -price[0] = -1	profits[0][0] = 0	=	-1
tx1回成約があり更新ならず			h[2][2]			x=1 -price[1] = -2		=	-2
は国成制があり更制ならり						x=2 -price[2] = -1	profits[0][1] = 0 profits[0][2] = 0	=	-2 -1 MAX
								=	-1 MAA
	1 5	6	profits[1][4]=1	7	_	x=3 -price[3] = -2 x=0 -price[0] = -1	profits[0][3] = 0	-	-2 -1
tx1回成約のもと更新	1 5	0	profits[1][4]=1	-		x=0 -price[0] = -1 x=1 -price[1] = -2	profits[0][0] = 0 profits[0][1] = 0	=	-1 -2
は江田成制のもと史制						x=2 -price[2] = -1	profits[0][2] = 0	=	-2 -1
						x=3 -price[3] = -2	profits[0][3] = 0	=	-2
						x=3 -price[4] = -1	profits[0][4] = 0	=	-1 MAX
	2 0	0				x=2 -buce[4] = -1	pronts[o][4] = o	_	-T INIVIX
	2 1	1	profits[2][0]=0	2	1	x=0 -price[0] = -1	profits[1][0] = 0	=	-1 MAX
	2 2	1	profits[2][1]=1	1	+	x=0 -price[0] = -1	profits[1][0] = 0	=	-1 MAX
	2 2	1	pronts[2][1]=1	1	'	x=1 -price[1] = -2	profits[1][1] = 1	=	-1 MAX
	2 3	2	profits[2][2]=1	2		x=0 -price[0] = -1	profits[1][0] = 0	=	-1 MAX
	2 3	2	pronts[2][2]=1	2		x=1 -price[1] = -2	profits[1][1] = 1	=	-1
						x=2 -price[2] = -1	profits[1][2] = 1	=	0 MAX
	2 4	2	profits[2][3]=2	1		x=0 -price[0] = -1	profits[1][0] = 0	=	-1
	2 4	2	pronts[2][3]=2	1	'	x=1 -price[1] = -2	profits[1][1] = 1	=	-1
						x=2 -price[2] = -1	profits[1][2] = 1	=	0 MAX
						x=3 -price[3] = -2	profits[1][3] = 1	=	-1
	2 5	7	profits[2][4]=2	7		x=0 -price[0] = -1	profits[1][0] = 0	_	-1
	2 3	- '	pronts[2][4]=2	,		x=1 -price[1] = -2	profits[1][1] = 1	=	-1
7=7+0=7+(-1+1)=(7-1)+(1)=(1買7売)+(t:	x1回でかつj=4まででの	profit=1)				x=2 -price[2] = -1	profits[1][2] = 1	=	0
						x=3 -price[3] = -2	profits[1][3] = 1	=	-1
						x=4 -price[4] = -1	profits[1][4] = 1	=	0 MAX
	3 0		C) [2][2] 0			0 : [0] .	(") [0][0] 0		1 1/1/
	3 1	1	profits[3][0]=0	2	+	x=0 -price[0] = -1	profits[2][0] = 0	=	-1 MAX
	3 2	1	profits[3][1]=1	1	+	x=0 -price[0] = -1	profits[2][0] = 0	=	-1
	2 -		C) [2][2] .			x=1 -price[1] = -2	profits[2][1] = 1	=	-1 MAX
	3 3	2	profits[3][2]=1	2	+	x=0 -price[0] = -1	profits[2][0] = 0	=	-1
						x=1 -price[1] = -2	profits[2][1] = 1	=	-1
						x=2 -price[2] = -1	profits[2][2] = 1	=	0 MAX
			Ci talial a				profits[2][0] = 0	=	-1
	3 4	2	profits[3][3]=2	1	+	x=0 -price[0] = -1			
	3 4	2	profits[3][3]=2	1	+	x=1 -price[1] = -2	profits[2][1] = 1	=	-1
	3 4	2	profits[3][3]=2	1	+	x=1 -price[1] = -2 x=2 -price[2] = -1	profits[2][1] = 1 profits[2][2] = 1	=	0
		2		1	+	x=1 -price[1] = -2 x=2 -price[2] = -1 x=3 -price[3] = -2	profits[2][1] = 1 profits[2][2] = 1 profits[2][3] = 2	= =	0 0 MAX
8 = 2 < 8	3 4	2	profits[3][3]=2 profits[3][4]=2	1 7	+	x=1 -price[1] = -2 x=2 -price[2] = -1 x=3 -price[3] = -2 x=0 -price[0] = -1	profits[2][1] = 1 profits[2][2] = 1 profits[2][3] = 2 profits[2][0] = 0	=	0 0 MAX -1
V	3 5	8		7	+	x=1 -price[1] = -2 x=2 -price[2] = -1 x=3 -price[3] = -2 x=0 -price[0] = -1 x=1 -price[1] = -2	profits[2][1] = 1 profits[2][2] = 1 profits[2][3] = 2 profits[2][0] = 0 profits[2][1] = 1	= = = = = = = = = = = = = = = = = = = =	0 0 MAX -1 -1
8 = 2 < 8 8 = 7 + 1 = 7 + (-1 + 2) = (7-1) + (2) = (1買7売) + (t	3 5	8		7	+	x=1 -price[1] = -2 x=2 -price[2] = -1 x=3 -price[3] = -2 x=0 -price[0] = -1 x=1 -price[1] = -2 x=2 -price[2] = -1	profits[2][1] = 1 profits[2][2] = 1 profits[2][3] = 2 profits[2][0] = 0 profits[2][1] = 1 profits[2][2] = 1	= =	0 0 MAX -1 -1 0
8 = 2 < 8 8 = 7 + 1 = 7 + (-1 + 2) = (7-1) + (2) = (1買7売) + (t	3 5	8		7	+	x=1 -price[1] = -2 x=2 -price[2] = -1 x=3 -price[3] = -2 x=0 -price[0] = -1 x=1 -price[1] = -2	profits[2][1] = 1 profits[2][2] = 1 profits[2][3] = 2 profits[2][0] = 0 profits[2][1] = 1	= = = = = = = = = = = = = = = = = = = =	0 0 MAX -1 -1

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profits[i][j] = max( profits[i][j-1] , prices[j] + max(-prices[x] + profits[i-1][x])) where 0 <= x < j

prices	3	2	6	5	0	3	https://	jovian.ai/ju	stcallmerob/ma	x-profit-with-k-transactio	ons								
profits	0	0	0	0	0	0	profit	s[i][j]	= max(	profits[i][j-1]	, pri	ces[j]	+	max(	-prices[x]	+ profits[i-1][	x])) w	here 0	<= x < j
k+1 * len(prices)-1	0	0	4	4	4	7	i=2 and	j = 5											
							profits[	2][5]	= max(	profits[2][5-1]	price	es[5]		x=0 x=1 x=2 x=3 x=4	-3 -2 -6 -5	i=2 profits[1][0] profits[1][1] profits[1][2] profits[1][3] profits[1][4]	0 0 4 4 4	= = = =	-3 -2 -2 -1 4
										4 ,	, :	3	+	4					
										左の値か計算した値か	max まず	()は、tx数 買いの日(	対が1少 の株価	ない際( をマイ:	画にmax()を足し Dprofitsを基に ナスにする :を足し込む				
							i j												
							0 0	0	売買回数0回										
							0 1	0	売買回数0回										
							0 2 0 3	0	売買回数0回										
							0 4	0	売買回数0回 売買回数0回										
							0 5	0	売買回数0回										
							1 0	Ö	初日のみ										
							1 1	0	3で買2で売	profits[1][0] = 0					-price[0] = -3	profits[0][0] = 0		=	-3 MAX
							1 2	4	2で買って 6で売る	profits[1][1]=0	(	6 +			-price[0] = -3 -price[1] = -2	profits[0][0] = 0 profits[0][1] = 0		=	-3 -2 MAX
							1 3	4	2買6売	profits[1][2]=4		5 +			-price[1] = -2 -price[0] = -3	profits[0][0] = 0		=	-2 MAX
										,				x=1	-price[1] = -2	profits[0][1] = 0		=	-2 MAX
															-price[2] = -6	profits[0][2] = 0		=	-6
							1 4	4	2買6売	profits[1][3]=4	(	0 +			-price[0] = -3 -price[1] = -2	profits[0][0] = 0 profits[0][1] = 0		=	-3 -2 MAX
															-price[1] = -2 -price[2] = -6	profits[0][2] = 0		=	-6
															-price[3] = -5	profits[0][3] = 0		=	-5
							1 5	4	2買6売	profits[1][4]=4	3	+			-price[0] = -3	profits[0][0] = 0		=	-3
															-price[1] = -2 -price[2] = -6	profits[0][1] = 0 profits[0][2] = 0		=	-2 -6
															-price[3] = -5	profits[0][3] = 0		=	-5
															-price[4] = 0	profits[0][4] = 0		=	0 MAX
							2 0	0	初日のみ					0	:	fit-[1][0] - 0			2144
							2 1 2	0		profits[2][0]=0 profits[2][1]=0		2 + 6 +			-price[0] =-3 -price[0] =-3	profits[1][0] = 0 profits[1][0] = 0		=	-3 MAX -3
								•		F	`			x=1	-price[1] =-2	profits[1][1] = 0		=	-2 MAX
							2 3	4		profits[2][2]=4		5 +		x=0	-price[0] =-3	profits[1][0] = 0		=	-3
															-price[1] =-2 -price[2] =-6	profits[1][1] = 0 profits[1][2] = 4		=	-2 MAX -2
							2 4	4		profits[2][3]=4		0 +			-price[2] =-0 -price[0] =-3	profits[1][0] = 0		=	-3
										1				x=1	-price[1] =-2	profits[1][1] = 0		=	-2
															-price[2] =-6	profits[1][2] = 4		=	-2
							2 5	7	3買6売(4)	profits[2][4]=4		3			-price[3] =-5 -price[0] =-3	profits[1][3] = 4 profits[1][0] = 0		=	-1 MAX -3
							- 3		0買3売(3)	p.onto[z][+j-+					-price[0] =-3	profits[1][1] = 0		=	-2
									, ,					x=2	-price[2] =-6	profits[1][2] = 4		=	-2
															-price[3] =-5	profits[1][3] = 4		=	-1
														x=4	-price[4] =0	profits[1][4] = 4		=	4 MAX
							. 1												