You have \$5,000 to invest in Dewey, Cheetum & Howe (DCH) but want to maximize your return. The stock price 1a. is currently \$25. What is the maximum number of shares you could purchase buying on margin if the initial margin requirement is 50%? \$ 5000 nargin + \$5000 Margin (debit) = \$10000 total purchasing (your money - 50%) (50%) loan (balance) = \$25.00 = 400

1b. Construct an acco

ount balance statement for the above transaction:				pershare sh
Assets		Liabilities & Account Equity		
400 shares @	\$25 \$10000 perhare	Margin Loan	[₹] 5000	
		Account Equiti	5000	
Total	: # (0000	Total:	\$ 0000	
			41	1 -1 -0 - >

If the price of DCH falls to \$17, what is your current margin? \$17 * 400 shares = \$6800 - value of security 1c. margin = (value of security - margin loan) / value of security

 $\frac{4800 - 5000}{6800} = \frac{1800}{6800} = 0.2647 \stackrel{\sim}{=} 26.5\%$

Construct an account balance statement for your account with the price of DCH at \$17: 1d.

Assets		Liabilities & Account Equity		
400 shares e 17	# 6800	Margin loan	[#] 5000	
		Account Equity	1800	
Total:	\$6800	Total:	\$6800	

Assuming the maintenance margin is 25%, will you have a margin call if the price falls to \$17? le. NO, but we are at 26.5% and we are very close to getting a margin call.

Because DCH has been such a dog, you decide to try shorting the stock. It is currently selling for \$10 per share. If 2a. you short 400 shares, what will be the proceeds from the sale of the transaction and how much will you need to must deposit 50%.

44000 * 50% - \$2000
initial

Construct an account balance statement for the above transaction: 2b.

Assets	Liabilities & Account Equity		
Proceeds e#10 per share 400	short 400 share position e #lopersh	aie \$4000	
Initial Margin Deposit \$ 2000	Account Equity	#2000	
Total: ⁴6∞	Total:	\$ 6000	

2c. If the price of DCH rises to \$12, what is your current margin? margin = (margin deposit + proceeds from short sale - value of security) / value of security $\frac{2000 + 4000 - 4800}{4800} = \frac{1300}{4800} = 0.25 = 25\%$

Construct an account balance statement for your account with the price of DCH at \$12: 2d.

Assets		Liabilities & Acc	count Equity	price of stock rises
Proceeds 400 share	es #4000	short 400 sho position e \$12 p	es # 4800	therefore, short position rises
Initial Margin De	10sit \$ 2000	Account Equity	\$ 1200	and account pourty
Total:	\$6000	Total:	96800	Account equity falls

Assuming the maintenance margin is 30%, will you have a margin call if the price rises to \$12? 2e.