







T-account	Analysis:		
Assets		Liabilities	
Vault Cash + \$100 (=Reserves)		Checkable Deposits + \$100	
Deposit of \$	100 check into I	First National Bank	
Assets		Liabilities	
Cash items of collection	in process + \$100	Checkable De	eposits + \$100
First Nation	nal Bank	Second Natio	onal Bank
Assets	Liabilities	Assets	Liabilities
Reserves	Checkable Deposits	Reserves	Checkable Deposits





- 3. Liability management
  - acquire funds at low cost
- 4. Capital adequacy management
  - decide the amount of capital the bank should maintain
  - acquire the necessary capital



Liquidity Mana Reserve requirement = 1 million	gement Example 0%, Excess reserves = \$10	-
Assets	Liabilities	
Reserves \$20 million	Deposits \$100 million	
Loans \$80 million	Bank Capital \$10 million	
Securities \$10 million		
Deposit outflow of \$10 m	illion	
Assets	Liabilities	
Reserves \$10 million	Deposits \$ 90 million	
Loans \$80 million	Bank Capital \$10 million	
Securities \$10 million		
With 10% reserve requirer reserves of \$1 million: no o	nent, the bank still has excess changes needed in balance sheet	
		9-8

No excess	reserves		
Assets		Liabilities	
Reserves	\$10 million	Deposits	\$100 million
Loans	\$90 million	Bank Capital	\$ 10 million
Securities	\$10 million		
Deposit ou	utflow of \$10 n	nillion	
Assets		Liabilities	
Reserves	\$ 0 million	Deposits	\$ 90 million
Loans	\$90 million	Bank Capital	\$ 10 million
Louis			

Solutio	ns to Liq	uidity Prob.	lem
1. Borrow	from other ba	anks or corporat	ions
Assets		Liabilities	
Reserves	\$ 9 million	Deposits	\$ 90 million
Loans	\$90 million	Borrowings	\$ 9 million
Securities	\$10 million	Bank Capital	\$ 10 million
2. Sell Se	curities		
Assets		Liabilities	
Reserves	\$ 9 million	Deposits	\$ 90 million
Loans	\$90 million	Bank Capital	\$ 10 million
Securities	\$ 1 million		

S. DOLLOW	from Fed		
Assets		Liabilities	
Securities	\$10 million	Bank Capital	\$ 10 million
Reserves	\$ 9 million	Deposits	\$ 90 million
Loans	\$90 million	Discount Loans	\$ 9 million
4. Call in o Assets	or sell off loar	Liabilities	
4. Call in o Assets Reserves	or sell off loar \$ 9 million	Liabilities	\$ 90 million
4. Call in o Assets Reserves Loans	or sell off loar \$ 9 million \$81 million	Liabilities Deposits Bank Capital	\$ 90 million \$ 10 million

















First National Bank		
Assets		Liabilities
Rate-sensitive assets Variable-rate loans Short-term securitie	\$20 m es	Rate-sensitive liabilities \$50 Variable-rate CDs MMDAs
Fixed-rate assets Reserves Long-term bonds Long-term securities	\$80 m	Fixed-rate liabilities \$50 Checkable deposits Savings deposits Long-term CDs Equity capital







- rearrange the balance-sheet:
  - shorten duration of assets
  - lengthen duration of liabilities
- use financial instruments (interest-rate swaps, futures)
  - less costly than altering the balance sheet
  - possibly the only feasible alternative





