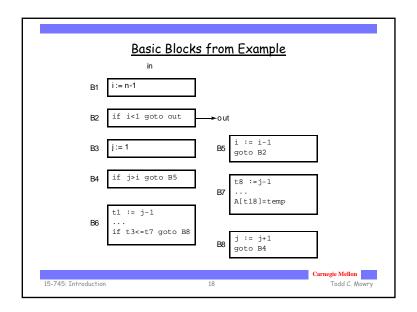
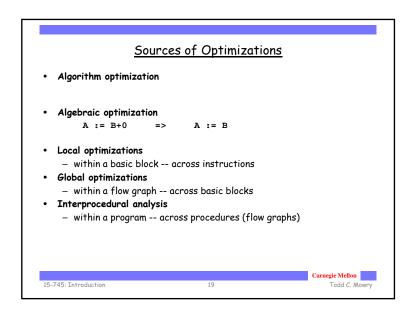
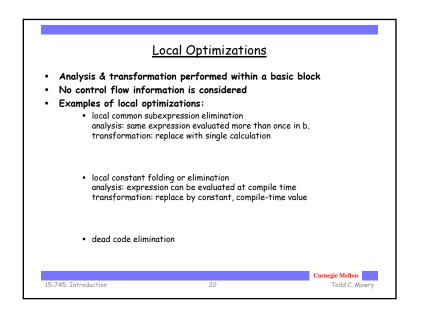


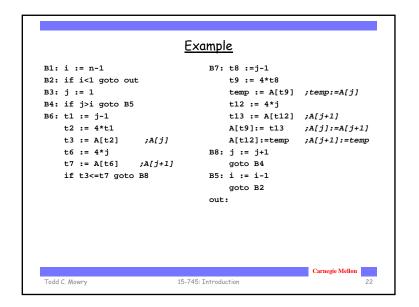
	<u>Find th</u>	<u>ne Basic</u>	<u>c Blocks</u>	
	i := n-1		t8 :=j-1	
e E .	if i<1 goto sl		t9 := 4*t8	
55:	i := 1		temp := 4"18	. 7.[ -] ]
- 4 -				;A[J]
54:	if j>i goto s2 t1 := j-1		t10 := j+1 t11:= t10-1	
	$t_{1} := J_{-1}$ $t_{2} := 4*t_{1}$		t12 := 4*t11	
	t3 := A[t2] ; A[j]		t13 := A[t12]	;A[]+1]
	t4 := j+1		t14 := j-1	
	t5 := t4-1		t15 := 4*t14	
	t6 := 4*t5		A[t15] := t13	;A[]]:=A[]+1]
	t7 := A[t6] ; A[j+1]		t16 := j+1	
	if t3<=t7 goto s3		t17 := t16-1	
			t18 := 4*t17	
				;A[j+1]:=temp
		s3:	j := j+1	
			goto S4	
		S2:	i := i-1	
			goto s5	
		s1:		

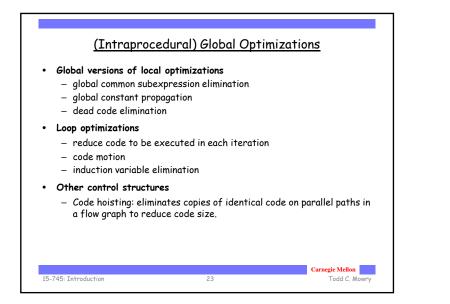






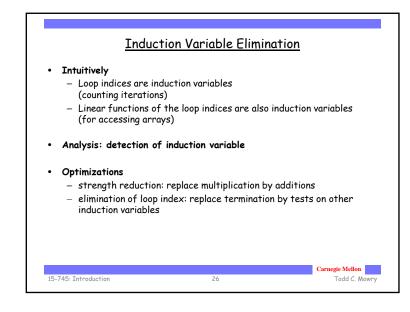
		<u>Exampl</u>	e	
	i := n-1		L0	
			t8 :=j-1	
S5:	if i<1 goto s1		t9 := 4*t8	
	j := 1		temp := A[t9]	;A[]]
s4:	if j>i goto s2		t10 := j+1	
	tl := j-1		t11:= t10-1	
	t2 := 4*t1		t12:= 4*t11	
	t3 := A[t2] ;A[j]		t13 := A[t12]	;A[j+1]
	t4 := j+1		t14 := j-1	
	t5 := t4-1		t15 := 4*t14	
	t6 := 4*t5		A[t15] := t13	;A[j]:=A[j+1]
	t7 := A[t6] ;A[j+1]		t16 := j+1	
	if t3<=t7 goto s3		t17 := t16-1	
			t18 := 4*t17	
			A[t18]:=temp	;A[j+1]:=temp
		s3:	j := j+1	
			goto S4	
		S2:	i := i-1	
			goto s5	
		s1:	-	
				Carnegie Mellon





-	
<u>E</u>	xample
Bl: i := n-1	B7: t8 :=j-1
B2: if i<1 goto out	t9 := 4*t8
B3: j := 1	<pre>temp := A[t9] ;temp:=A[j]</pre>
B4: if j>i goto B5	t12 := 4*j
B6: tl := j-1	t13 := A[t12] ;A[j+1]
t2 := 4*t1	A[t9]:= t13 ;A[j]:=A[j+1]
t3 := A[t2] ;A[j]	A[t12]:=temp ;A[j+1]:=temp
t6 := 4*j	B8: j := j+1
t7 := A[t6] ;A[j+1]	goto B4
if t3<=t7 goto B8	B5: i := i-1
	goto B2
	out:
	Carnegie Mellon

Example 1		
	After Global CSE)	
B1: i := n-1	B7: A[t2] := t7	
B2: if i<1 goto out	A[t6] := t4	
B3: j := 1	B8: j := j+1	
B4: if j>i goto B5	goto B4	
B6: t1 := j-1	B5: i := i-1	
t2 := 4*t1	goto B2	
t3 := A[t2] ;A[j]	out:	
t6 := 4*j		
t7 := A[t6] ;A[j+1]		
if t3<=t7 goto B8		
Todd C. Mowry 15-	Carnegie 745: Introduction	e Mellon



	<u>LXumple (A</u>	TELIV	<u>Elimination)</u>	
в1:	i := n-1	в7:	A[t2] := t7	
в2:	if i<1 goto out		A[t6] := t3	
в3:	t2 := 0	B8:	t2 := t2+4	
	t6 := 4		t6 := t6+4	
в4:	t19 := 4*I		goto B4	
	if t6>t19 goto B5	в5:	i := i-1	
в6:	t3 := A[t2]		goto B2	
	t7 := A[t6] ;A[j+1]	out:		
	if t3<=t7 goto B8			

