						R3																
Student				R1 Euler integrator	R2 Spring	Trapezoid integrator	R4 Pendulum	R5 Cloth		tes / wtf /	DK4 (2-)	Spray system (1-	14/:	Mouse drag/	FrictionI.	Particle spline editor		Particle rendering	Implicit integr (8-	GPU stuff	other	-41 (4)
number 145525	point total	req total	extra total	(1p)	system (2p)	(2p)	system (2p)	system (3p)	moa		RK4 (2p)	3p)	Wind (2p)	poke (2-3p)	coii. (2p)	(2-3p)	(1+p)	(1-4p)	10p)	(4+p)	(points)	other (what)
210984		0	0	0																		
218096			3	-	1	D	2 (0														
292986			0	0																		
351526		0	0	0					Dr.	d6-d												
353692	11.	5 9	9.5	2	1	2	2 2	2 2.5	Wro	drag applied		2										
362418		0	0	0																		
424851		0	0	0																		
425575		0	0	0																		
426419			0	0																		
427230	1	2	10	2	1	2	2 1	2 3				2										
									syst	: Cloth stem is												
400005		9	9	0	4	2			mis	ssing fixed												
428925 429461							2 2	2 2 2	corr	ner points.												
431006			0	0	1	2	2 .	2 3														
431000		0	0	0					R2	, R4 and R5												
									you	ı forgot to												
									use	mass for												
									cald	celeration culation.												
									Onl	ly -0.5 from . The wind												
									R2.	. The wind s random												
									dire	ection, but												
									the	cloth is tic under the												
									forc	ce. (Not												
400700	40					_	2 2	3	cha	anging as				4								
432788 437631	12.		0.5	0	1 1.	5	2 2	2 3	time	e goes on)		2		1								
70/001			0						po.	old state												
474898		4	4	0	1	1	2		add	old state ded to force.												
475389		0	0	0																		
476883	1	2	10	2	1	2	2 1	2 3				2										
478632		0	0	0																		
506041			0	0																		
506287	1		10	2	1	2	2 1					2										
520085		7	7	0	1	2	2 1	2														
									Pro	ogram did not												
									first	t try. Correct												
									vers	sion mitted? R2												
									brok	ken. R4 and												
									R5	don't work												
									eith hav	ner. They ve some												
									corr	rect ideas,												
525491		5	5	0	1 0.	5	2 0.5	5 1	so p	points for the												
525750				0	. 0.		- 0.,	, ,	Cilio	J. L.												
525750				0																		
				-					R2	derivative of												
507077		2							pos	sition not												
527677 530185			0	0	1	1			corr	rect.												
530185 530648				0																		
550040		U	U	U					D4 .	crashing,												
									poir	nts for												
552794	5.		5.5		1	2	2 0.5	5 0	atte	empt.												
552969		0	0	0																		
									R5:	: Extra spring nections in												
565710	11.	5 9	9.5	2	1	2	2 1	2 2.5	clot	th system.		2										
570116		0	0	0																		
576149			0	0																		
577122	1	2	10	2	1	2	2 1	2 3				2										
585240			3	0	1		2															
586029			0	0																		
586333	2			11			2 1					2		2						7		
587549	1		10	7	1	2	2 1	2 3				2 :	3	2								
589796		0	0	0																		
									Mou	use poking is												
589929	14.	5	10	1.5	1	2	2 2	2 3	for t	ken, points the effort.		2		2 0.5	5							
590743					1																	
592864			0	0																		

Student				R1 Euler integrator	R2 Spring	R3 Trapezoid integrator	R4 Pendulum			notes / wtf /	DK4 (0=)	Spray system (1-	Wind (0n)	Mouse drag/	FrictionI.	spline editor	Cloth	Particle rendering	Implicit integr (8-	GPU stuff	other	-4h (h -4)
number	point total	req total	extra total	(1p)	system (2p)	(2p)	system (2p)	system (3p)	moa		RK4 (2p)	3p)	Wind (2p)	poke (2-3p)	coll. (2p)	(2-3p)	(1+p)	(1-4p)	10p)	(4+p)	(points)	other (what)
592929 595997	11.5		.5	2	1 2	2	2 2	2 2.				2										
596174			0	0		-						-										
596747			3		1 2	2	0 () (n													
596815)	0	0					-													
										R2 not dividng												
597322	9.		.5	0	1 1.5	5	2 2	2 :	3	force by mass.												
603025			0	0																		
604244	-)	0	0																		
										R3, you have implemented												
										implemented midpoint												
604312			9		2 2		0 2		3	integrator.												
605560			9	0			2 1															
605722	11) 1	10	0	1 2	2	2 1	2 :	3													
609265	5.	5 3	.5	2	1 0.5	5	2 ()	0	R2 points for effort.		2										
000200			.0	-						R2 not dividing		_										
614580	6.		.5	0	1 1.5			2		force by mass.												
618117	11		10	0	1 2	2	2 1	2 :	3													
635187			0	0																		
646655		7	7	0	1 2	2	2 1	2	0													
										R2, not using mass for acceleration.												
										Also very weird behaviour. R3, only one euler step would have												
										sufficed. Also settings states during the step												
646927	:	3	3	0	1 1	1	1 ()	0	function -> speeds up the simulation.												
										R2 no mass used in acceleration												
648530		5 6	-	0		-		,		calculation.												
648530 648653	6.9		.5	19	1 1.5		2 2		-	Same in R4.		2				2				8		3 RKF45: 3
650227			5	0			2	2 :	3	Great job!		2 .)			2		1		0		3 KKF45. 3
650492	1-		10	4			2 2	2 :	2			2		2								
652131			0	0		-		-				-		_								
652144	1		10	2	1 2	2	2 1	2	3			2										
652801			0	0	1 2	2	-		,			2										
653101		6	6	0	0 2	2 0	5 1.1	5	2	R1 and R3, only modifying the first particle of the state. Mathematical dea for R3 correct, so some points for the effort. R4 not using mass in evall F for acceleration. Rt cloth system unstable, something seems off.												
653460)	0	0																		
653509	11		10	0	1 2	2	2 1	2 :	3													
653758			0	0																		
653897	13		10	2	1 2	2	2 1	2 :	3			2										
										R4, your forgot to calculate acceleration from the total												
654579	11.8	5 9	.5	2	1 2	2	2 1.5	5 :	3	force with mass				2								
655691)	0	0																		
656470			0	0																		
656991	10		10	0	1 2	2	2 2	2 :	3													
665131	13		10	2			2 1	2 :	3			2										
										R3, adding step												
666253	6.		.5	0	1 2	2 1	.5	2	0	size to state?												
667171			0	0																		
672771			7					2														
673987	1		10	7			2 2					2 :	3	2								
675163	1-	1 1	10	4	1 2	2	2 2	2	3			2				2						

Property of the content of the con																							
Manual		noint total	rog total	ovtra total	integrator		integrator	Pendulum		mad		DK4 (2m)	system (1-	Wind (2n)	Mouse drag/	Frictionl.	spline editor	tearing	rendering	integr (8-			other (what)
Company			-			system (2p)	(2p)	system (2p)	system (3p)	moa		RK4 (2p)	3p)	wina (2p)	роке (2-3р)	coii. (2p)	(2-3p)	(1+p)	(1-4p)	1Up)	(4+p)	(points)	other (what)
March Marc																							
Marie Mari						4 .	2	2	,	2			2		2								
Marchan Marc						1 4	2	2 .	۷ .	3			2		2								
March Marc			-			4 .	2			0													
Page						1 .	2	0) (U													
Part	706003		U	U	U						O4 :-bl Tb-												
March Marc											sprinkler system is somehow												
Marche March 1	706045	1	5	10	5	1 2	2	2	2 :	3	:D.		2	3									
77444 115 95 2 1 12 2 2 2 3 MARCH											readme with student info. R2 and R4, forgetting to use mass. R4 you are also forgetting to add force to the opposite direction in the second spring. R5 is broken,	•											
77000	706443		7	7	0	1 13	5	2	2 0 !	5	effort												
761786																							
Process						· · · · · · · ·		-	,	-													
707277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1 11		2	2 0.4	5	mass for acceleration calculation. R4 no mass used either. R5												
771757						1 13		۷ .	2 0.0	5	points for ellort.												
707620 5 5 0 1 2 2 2 0 0 0																							
Tributes 12 10 2 11 2 2 2 3 Services Se																							
709078 10 10 10 10 2 2 2 1 0 0 85 5000 00 85																							
Property													2										
769178 13.5 10 3.5 1 2 2 2 3 3 serings Serin	708988	1	0	10	0	1 2	2	2	2 :	3	add spring force	•											
709178 13.5 10 3.5 1 2 2 2 3 a average. 1.5 2 709073 5 5 5 0 1 2 2 2 2 3 a average. 1.5 2 711111 14 10 4 1 2 2 2 2 0 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9	709026		6	6	0	1 2	2	2	1 (0	spring. RK4 wrong weights for												
710903	700470	40	-	40 0							weighted		-		0								
Title										-	average.	1.	5		2								
Risk amaing weighted average																							
711218 13.5 10 3.5 1 2 2 2 2 3 Weighted average from 1.5 2 1 1 2 2 2 2 3 Weighted average from 1.5 2 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 2 3 Weighted average 1.5 1 1 2 2 2 3 3 Weighted average 1.5 1 1 2 2 2 3 3 Weighted average 1.5 1 1 2 2 3 3 Weighted average 1.5 1 1 2 2 3 3 Weighted average 1.5 1 1 2 2 3 3 Weighted average 1.5 1 1 2 2 3 3 Weighted average 1.5 1 1 2 2 3 3 Weighted average 1.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	711111	1	4	10	4	1 :	2	2	2 ;	3	RK4 missing		2		2								
THE STATE OF THE S											weighted average weights from												
No.											torces.				2								
Till	/ 11263	1	4	10		1 2	4	۷ .	۷ :	3	RK4 wrong		4										
12039 13.5 10 3.5 1 2 2 2 3 1 1 2 2 2 3 1 1 2 2 2 3 1 1 2 2 2 3 1 1 2 2 2 3 1 1 2 3 1 1 3 1 3	744040		_	_	_						weights for weighted		_										
713601 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											average.	1.		-	2								
713928 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1 2	4	۷ .	۷ :	3			1.	5	2								
714477 0 0 0 0 0 R3																							
R3 and R5 the small problem was that you divided velocity by mass not the total force. Fixing this fixed all the issues. Only R5 mirus points. 2 2 2 2 2 3 R2 divide all forces by mass. 2 2 3 R2 divide all forces by mass. 3																							
Simal problem Simal proble	714477		0	0	0																		
716718 9.5 9.5 0 1 1.5 2 2 3 forces by mass. 716792 4 4 0 0 1 1 2 R2 effort points.	714574	11.	5 9	9.5	2	1 2	2	2	2 2.8	5	small problem was that you divided velocity by mass not the total force. Fixing this fixed all the issues. Only R5 minus		2										
716792 4 4 0 1 1 2 R2 effort points.											R2 divide all												
717377 0 0 0 0									2 :	3	forces by mass.												
			0	0	0																		
12 10 2 1 2 2 2 2	729637				2	1 3	2	2	2 :	3			2										

				R1 Euler	Dan :	R3 Trapezoid	R4	DE 01 ::				Spray				Particle	Cloth	Particle	Implicit	onu : f		
Student number	point total	req total	extra total	integrator (1p)	R2 Spring system (2p)	integrator (2p)	Pendulum system (2p)	R5 Cloth system (3p)	mod	notes / wtf /	RK4 (2p)	system (1- 3p)	Wind (2p)	Mouse drag poke (2-3p)	/ FrictionI. coll. (2p)	spline editor (2-3p)	(1+p)	rendering (1-4p)	integr (8- 10p)	GPU stuff (4+p)	other (points)	other (what)
										R2, spring force is calculated to the opposite direction. The second particle just falls. Also												
										you are not using mass for acceleration on R2, R4 or R5 - > -0.5. R5 slow fps due to												
730105	8.8			-			2 1.5			nested loops.												
730448	14	4 1	0	4	1	2	2 1	2 3		R5: Cloth		2		2								
										system partially												
730969 732381				0			2 2			done.												
732301				0		_				R2 and R4 not												
763282	9.6	5 9.	.5	0	1 1.	5	2 2	2 3		using mass for acceleration, only -0.5 for R2.												
										R5, cloth system unstable with larger step sizes that the												
765662	13.5		_	4	4	2	2 2	2 2.5		example can		2		2								
766108	13.5						2 2			handle.		4		4								
768902	(-	0																		
770084	10		-	-				2 3														
772040 778109	1 20						2 2					2	3	2		2		1				
779661					1		2	2 3				2	3	2		2		-				
										Cool ideas with the soft-body												Free flying camera 1.5p; Soft-body
779959 780210	18.5						2 2			simulations!		2									6	i.5 simulation 5p
780210	14			-		_	2 1					2		2								
781468				0																		
781866	10			2	1	2	2 1	2 3				2										
782124	(0	0	0						D01 1 11 11												
782182	18.5	5 9.	.5	9	1 1.	5	2 1	2 3		R2 forgot divide force by mass.		2	3	2		2						
782357	10						2 1					2										
782700		5	5	0	1	2	2 (0 0		R2 not dividing force by mass. RK4 missing												
783288	10.5	5 9.	.5	1	1 1.	5	2 2	2 3		half of implementation.		1										
783301	(0	0		0																	
783356	1			-			2 2															
785707 786146	12		•	-			2 2					2										
786874				0		-	-	. 0														
787226	(0	0	0																		
										GPU rigid body simulation very cool! Great												GPU cloth system texture + shading 2; GPU rigid body
788254	38			28			2 2			work.		2								8	4 1	14 simulation 12;
788539	10			0	1	2	2 1	2 3														
788788 789017	(-	0																		
789017		5	0	0						R2 no mass used in acceleration calculation. R3 no need to set_state in the middle - no minus points even though it speeds up the												
791610	6.5				1 1.	5	2 (0 0		simulation.		2										
791678				0	4	2	0															
793621 795658					1		0 (0 0														

				R1 Euler		R3 Trapezoid	R4					Spray			Particle	Cloth	Particle	Implicit			
Student number	point total	req total	extra total	integrator	R2 Spring system (2p)	integrator	Pendulum	R5 Cloth system (3p)	mod	notes / wtf /	RK4 (2p)	system (1- 3p)	Wind (2p)	Mouse drag poke (2-3p)	spline editor	tearing (1+p)	rendering (1-4p)	integr (8- 10p)	GPU stuff (4+p)	other (points)	other (what
										R4 derivative position											
										calculated											
										wrong, should be velocity. R5											
705755	7		7	0	1 :		2	1		1p for structural											
795755	- '		/	U	1 .	2	2	1	1	springs. R5: Cloth											
										system unstable	е										
818409	11.5		.5		1 :	2	2 2	2 2.	5	at equilibrium.		2									
819754 829948	1			0	1	0	0 (0													
023340			1	0		0		D		Your wind mode											
										change check											
										seems to be ok Sprinkler points											
831907	14.5	5 1	10 4	.5	1 :	2	2 2	2	3	for trying.		2 0.5	5	2							
										R4 spring											
										forces wrong. R2 not dividing											
838191	5.5			-	1 1.	5	2	1		force by mass.											
853723	C)	0	0						D4 starting											
										R4 starting position wrong											
										but otherwise good. R5 points											
871831	9	9	7	2	1 :	2	2 1.5	5 0.	5	for effort.	`	2									
882972	C)	0	0																	
										R5: Cloth system partially											
883353	8	3	8	0	1 :	2	2 :	2	1	done.											
										RK4 unstable											
										due to forgetting to add all	9										
										contributions to											
										the sum. You used = instead											
885665	9.5			.5			2			of +=.	1.										
887799	12								3	Great job!		2									
892179	12				1 :	2	2 1	2	3	Good job!		2									
892292	0			0																	
892412	11	1 1	10	1	1 :	2	2 2	2	3	R5: Cloth		1									
										system											
892690	9.5		.5	0				2 2.		unstable.		_									
897572	12	2 1	10	2	1 :	2	2 2	2	3	R5: Cloth		2									
										system											
897925	11.5		.5	2	1 :	2	2 1	2 2.	5	unstable.		2									
903929	C)	0	0																	
										R5 seems to have extra											
905833	12		10	2		2	2 2	2		springs but it		2									
905633	12		10						3	works.		2									
300371	12			-		-		-		R4: Pendulum		-									
										system unstable	•										
										at equilibrium. R5: Cloth											
										system not											
										drawing particles within											
913498	6.5			0	1	2	2 1.5	5	D	camera view.											
913511	C		-	0																	
913540	0		-	0																	
943413 952352	0		0	0																	
952352 963354	12				1 :	2	2 2	2	3			2									
-	12	· '		-		-	- '	-	-	R2 you forgot to		-									
										divide force by											
										mass. Don't know if this is											
										conscious											
										decision as mass is 1. RK4.											
										vou forgot											
										weighted average											
										weights in the last step. Cloth											
										tearing 0.5 for											
976260	13.5	9	.5	4	1 1.	5	2 1	2	3	the idea.	1.	5		2							0.5 tearing 0.5

				R1 Euler		R3 Trapezoid	R4					Spray					Cloth	Particle	Implicit			
Student number	point total	reg total	extra total	integrator (1p)	R2 Spring system (2p)	integrator	Pendulum system (2p)	R5 Cloth system (3p)	mod	notes / wtf /	RK4 (2p)	system (1- 3p)	Wind (2p)	Mouse drag poke (2-3p)	FrictionI.	spline editor (2-3p)	tearing (1+p)	rendering (1-4p)	integr (8- 10p)	GPU stuff (4+p)	other (points)	other (what
	point total	roq total	OALI U LOLUI	(-P)	o y o to (2p)	(-P)	o y o to (2p)	cyclem (ep)			тит (2р)	ορ,	77a (2p)	pono (2 op)	CO (2p)	(- op)	(···p)	(1.49)	,	((pointo)	Double
																						pendulum: 2, Simple
																						constrained system: 3.
																						constrained system: 5,
																						rigidbody: 4,
										R2 no												softbody: 4, fabrik: 5,
										horizontal movement.												Iterative constrained
976503	39.5			30	1 1.5		2 2			Great job!		2										28 system: 5
995212 995270	20				1 12		2 2															
995270 995319	10						2 2 2					2		2								
990019	14	, "	U	4	1 2	2	2	٠,	,	R4 spring		2		2								
995762	9.5	5 9.	5	0	1 2	2	2 1.5	5 :	2	forces seem to												
993702	9.0	9.	3	U	1 2	2	2 13	, ,	,	be wrong. R2 force not												
998743	44.5	5 9.	-	2	1 1.5		2 2	2 :	,	divided by		2										
999743	11.5			0	1 1.3)	2 2	٠ ,)	mass.		2										
1000203	Č			0																		
										R5: Cloth												
1001163	g	,	9	0	1 2	2	2 2	2 1	2	system partially done.												
1002450	12	2 1	0	2	1 2	2	2 2	2 :	3			2										
1002696	21						2 2							2							4	
1010138	16	5 1	0	6	1 2	2	2 2	2 :	3			2 1	2	2								
										R5 unstable cloth system.												
										Creating springs but not												
1010921	10.5	8.8	5	2	1 2	2	2 2	2 1.5	5	using them?		2										
1011166	7	,	7	0	1 2	2	2 2	2														
										Your program did not compile												
										without												
										modifying Fluidsystem												
										evalF. Wind makes the cloth												
1015515	13	3 1	0	3	1 2	2	2 2	2 :	3	stationary?		2 ()	1								
										R2, R3 and R5												
										forgetting to use mass for												
1031418	11.5			2	1 1.5		2 2			acceleration.		2										
1034897	10) 1	0	0	1 2	2	2 2	2 :	3	Frictionless												
										collision makes												
										the cloth unstable. Cloth												
										tearing just tears the cloth												
1034907	18.5	5 1	0 8	.5	1 2	2	2 2	2 :	3	off.		2 :	3	2		1		0.5				
										Please fill out												
100063675	3	3	3	0	1		2			your name in the README.												
100065699	C		0	0						Empty zip fle!												
100077632	1			-	1																	
100080195	10			0	1 2		2 2	2 :	3													
100082119	3	3	3	0	1		2			Please fill the												
										README!! R5												
										starting position not showing												
100083817	9		9	0	1 2	2	2 2	2 1	2	movement.												
										R2 not showing horizontal												
										movement. R5												
100084638	8.5	5 8.	5	0	1 1.5	5	2 2	2 2	2	starting position not correct	1											
100085828	10			0			2 2	2	3													
400007000										Effort points for		-										
100087363	5.5		5 0	.5	1 2	4	2			rk4. Empty	0.8	0										
100088595	c		0	0	0 0)	0 0) ()	submission?												
										R2 all forces no	t											
100088812	9.5	9.	5	0	1 1.5	5	2 2	2 :	3	divided by mass.												

Student number	point total	req total	extra total	R1 Euler integrator (1p)	R2 Spring system (2p)	R3 Trapezoid integrator (2p)	R4 Pendulum system (2p)	R5 Cloth system (3p)	mod	notes / wtf /	RK4 (2p)	Spray system (1- 3p)	Wind (2p)	Mouse drag/ poke (2-3p)	FrictionI.	spline editor	Cloth tearing (1+p)	Particle rendering (1-4p)	Implicit integr (8- 10p)	GPU stuff (4+p)	other (points)	other (what)
					1 15					R3 idea correct but crashing.R2 force not divided by												
100090114	8.5	8.5	5	0	1 1.5		1 2	2 3		mass. Please return												
100097625	4.5	i 4.	_	0	1 1.5	5				the whole folder with filled README included. R2 not dividing force by mass.												
100097025	4.5			0	1 13	,				mass.												
100030543	0			0																		
100126376	12				1 2	2	2 2	2 3						2								
100135985	12.5				1 1.5	5	2 1.5	5 2.5		R2, R4 and R5 are unstable due to using current_state_ rather than state argument in calculations.		2		2								
100153873	0) (D	0																		
27028M	12.5				1 2		2 2			R5 looks bit weird. Forgetting to use mass for spring forces. ComputeCloth, points for the effort!		2									2	
35564T	7	1	7	0	1 2	2 :	2 2	2 0														
46477D	5.5				2	1 :	2 0.5	5 0		R3 using position in the drag calculation. Same in R4. Also R4 explodes and no spring forces. Points for effort.												
68933B	0			0																		
81616N	0) (D	0																		
82085F	6.5	i 6.	5	0	1 1.5	5	2 2	2 0		R2, for acceleration calculation from net force, divide all forces by the mass - not only gravity. Same for R4.												
83818L	14				1 2		2 2					2		2								
k28342	0			0																		
k90993	15	i 10	D	5	1 2	2 :	2 2	2 3		Good job!		2		2				1				