

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)	Frictionl. coll. (2p)	Particle spline editor (2-3p)	Cloth tearing (1+p)	Particle rendering (1-4p)	Implicit integr (8-10p)	GPU stuff (4+p)	other (points)	other (what)
145525	3	3	0		1	2																
210984	0	0	0																			
218096	3	3	0		1	0	2	0	0													
292986	0	0	0																			
351526	0	0	0																			
353692	11.5	9.5	2		1	2	2	2	2.5	R5 drag applied wrong.	2											
362418	0	0	0																			
424851	0	0	0																			
425575	0	0	0																			
426419	0	0	0																			
427230	12	10	2		1	2	2	2	3		2											
428925	9	9	0		1	2	2	2	2	R5: Cloth system is missing fixed corner points.												
429461	10	10	0		1	2	2	2	3													
431006	0	0	0																			
										R2, R4 and R5 you forgot to use mass for acceleration calculation. Only -0.5 from R2. The wind has random direction, but the cloth is static under the force. (Not changing as time goes on)	2			1								
432788	12.5	9.5	3		1	1.5	2	2	3													
437631	0	0	0																			
474898	4	4	0		1	1	2			R2 old state added to force.												
475389	0	0	0																			
476883	12	10	2		1	2	2	2	3		2											
478632	0	0	0																			
506041	0	0	0																			
506287	12	10	2		1	2	2	2	3		2											
520085	7	7	0		1	2	2	2														
										Program did not compile on the first try. Correct version submitted? R2 broken. R4 and R5 don't work either. They have some correct ideas, so points for the effort.												
525491	5	5	0		1	0.5	2	0.5	1													
525750	0	0	0																			
525941	0	0	0																			
527677	2	2	0		1	1				R2 derivative of position not correct.												
530185	0	0	0																			
530648	0	0	0																			
552794	5.5	5.5	0		1	2	2	0.5	0	R4 crashing, points for attempt.												
552969	0	0	0																			
565710	11.5	9.5	2		1	2	2	2	2.5	R5: Extra spring connections in cloth system.	2											
570116	0	0	0																			
576149	0	0	0																			
577122	12	10	2		1	2	2	2	3		2											
585240	3	3	0		1		2															
586029	0	0	0																			
586333	21	10	11		1	2	2	2	3		2			2					7			
587549	17	10	7		1	2	2	2	3		2		3	2								
589796	0	0	0																			
										Mouse poking is broken, points for the effort.	2			2	0.5							
589929	14.5	10	4.5		1	2	2	2	3													
590743	1	1	0		1																	
592864	0	0	0																			

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592929	0	0	0																			
595997	11.5	9.5	2	1	2	2	2	2.5			2											
596174	0	0	0																			
596747	3	3	0	1	2	0	0	0														
596815	0	0	0																			
597322	9.5	9.5	0	1	1.5	2	2	3		R2 not dividing force by mass.												
603025	0	0	0																			
604244	0	0	0																			
604312	9	9	0	2	2	0	2	3		R3, you have implemented midpoint integrator.												
605560	9	9	0	1	2	2	2	2														
605722	10	10	0	1	2	2	2	3														
609265	5.5	3.5	2	1	0.5	2	0	0		R2 points for effort.	2											
614580	6.5	6.5	0	1	1.5	2	2			R2 not dividing force by mass.												
618117	10	10	0	1	2	2	2	3														
635187	0	0	0																			
646655	7	7	0	1	2	2	2	0														
646927	3	3	0	1	1	1	0	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 function -> speeds up the simulation.												
648530	6.5	6.5	0	1	1.5	2	2	0		R2 no mass used in acceleration calculation. Same in R4.	2	3			2		1		8		3 RKF45: 3	
648653	29	10	19	1	2	2	2	3		Great job!												
650227	5	5	0	1	2	2					2			2								
650492	14	10	4	1	2	2	2	3			2			2								
652131	0	0	0																			
652144	12	10	2	1	2	2	2	3			2											
652801	0	0	0																			
653101	6	6	0	0	2	0.5	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 evalF for acceleration. R5 cloth system unstable, something seems off.												
653460	0	0	0																			
653509	10	10	0	1	2	2	2	3														
653758	0	0	0																			
653897	12	10	2	1	2	2	2	3			2											
654579	11.5	9.5	2	1	2	2	1.5	3		R4, your forgot to calculate acceleration from the total force with mass.				2								
655691	0	0	0																			
656470	0	0	0																			
656991	10	10	0	1	2	2	2	3														
665131	12	10	2	1	2	2	2	3			2											
666253	6.5	6.5	0	1	2	1.5	2	0		R3, adding step size to state?												
667171	0	0	0																			
672771	7	7	0	1	2	2	2															
673987	17	10	7	1	2	2	2	3			2	3		2								
675163	14	10	4	1	2	2	2	3			2				2							

[illegible]

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100090114	8.5	8.5	0	1	1.5	1	2	3		R3 idea correct but crashing. R2 force not divided by mass.												
100097625	4.5	4.5	0	1	1.5	2				Please return the whole folder with filled README included. R2 not dividing force by mass.												
100098349	0	0	0																			
100119587	0	0	0																			
100126376	12	10	2	1	2	2	2	3					2									
										R2, R4 and R5 are unstable due to using current_state_ rather than state argument in calculations.	2		2									
100135985	12.5	8.5	4	1	1.5	2	1.5	2.5														
100153873	0	0	0																			
										R5 looks bit weird. Forgetting to use mass for spring forces. ComputeCloth, points for the effort!												
27028M	12.5	8.5	4	1	2	2	2	1.5			2										2	
35564T	7	7	0	1	2	2	2	0														
										R3 using position in the drag calculation. Same in R4. Also R4 explodes and no spring forces. Points for effort.												
46477D	5.5	5.5	0	2	1	2	0.5	0														
68933B	0	0	0																			
81616N	0	0	0																			
										R2, for acceleration calculation from net force, divide all forces by the mass - not only gravity. Same for R4.												
82085F	6.5	6.5	0	1	1.5	2	2	0						2								
83818L	14	10	4	1	2	2	2	3			2		2									
k28342	0	0	0																			
k90993	15	10	5	1	2	2	2	3		Good job!	2		2				1					