

Computer Graphics 2026 Programming Assignment 4												
Student ID	GitHub Username	Naive Path Tracer (15)				Path Tracer with Next Event Estimation (10)			Report (10)		Total (35)	Note
		Test Scene (3)	Antialiasing & Convergence (2)	Materials (3)	BSDF Sampling (7)	Test Scene (2)	Emitter Sampling (5)	Multiple Emitters (3)	Sufficient evidences (8)	Format (2)		
20225086	15JH1	3	2	3	7	2	0	3	5	2	27	Double counting [-5] No description about block rendering [-1] Insufficient descriptions about how Li function and multiple emitters are implemented: neither supporting formulae nor implementation details [-2]
20225014	EOB6	3	2	3	7	2	5	3	7	2	34	Insufficient description about multiple emitters: neither supporting formulae or implementation details [-1]
20245075	bags91958	3	2	2	0	2	5	3	1	1	19	Mirror doesn't use a reflectance parameter [-1] Incorrect shadow ray origin offset [-2] No result images in the report [-3] No description about block rendering [-1] Insufficient descriptions about diffuse and mirror materials, Li function, and emitter sampling: neither supporting formulae or implementation details [-3] No student information [-1]
20205035	BranKein	3	2	3	7	2	5	3	8	2	35	No description about block rendering and multiple emitters [-2] Omitted descriptions about diffuse and mirror materials [-1] Insufficient descriptions about emitter sampling: neither supporting formulae nor implementation details [-1]
20225147	express-door	3	2	3	7	2	5	3	4	2	31	Mirror doesn't use a reflectance parameter [-1] Double counting [-5] No description about block rendering and multiple emitters [-2] Insufficient description about dielectric: snell's law omitted [-1]
20255185	freaksemicolon	3	2	2	7	2	0	3	5	2	26	Mirror doesn't use a reflectance parameter [-1] Double counting [-5] No description about block rendering and multiple emitters [-2] Insufficient description about dielectric: snell's law omitted [-1]
20215082	gaeeeguri	3	2	2	7	2	5	3	8	2	34	Mirror doesn't use a reflectance parameter [-1]
20225067	gisJackdaniel	3	2	3	7	2	5	3	8	2	35	Insufficient description about multiple emitters: neither supporting formulae or implementation details [-1]
20245109	GwanLi2a	3	2	3	7	2	5	3	7	2	34	Insufficient description about multiple emitters: neither supporting formulae or implementation details [-1]
20268007	bsokvispn	3	2	3	7	2	5	3	7	2	34	Insufficient descriptions about diffuse and dielectric materials and Li function: neither supporting formulae or implementation details [-2]
20225160	Jangseo5160	3	2	3	7	2	5	3	6	2	33	Insufficient descriptions about Li function and multiple emitters: neither supporting formulae or implementation details [-2]
20205196	JINO138	3	2	3	7	2	5	3	6	2	33	Insufficient descriptions about Li function and multiple emitters: neither supporting formulae or implementation details [-2]
20245046	JOO404	3	2	3	7	2	5	3	8	2	35	
20245208	jjy0318hh	0	0	0	0	0	0	0	0	0	0	No submission [-35]
20225115	kelly-akty	3	2	1	7	2	0	3	0	0	18	Mirror doesn't use a reflectance parameter [-1] No dielectric implementation [-1] Double counting and No shadow ray test [-5] No report [-10]
20215042	Kim-SeungJu	3	2	2	7	2	5	3	8	2	34	Mirror doesn't use a reflectance parameter [-1]
20268011	lomination	3	2	3	7	2	5	3	3	1	29	No descriptions about block rendering, the materials, Li function, emitter sampling and multiple emitters: neither supporting formulae or implementation details [-5] Wrong report file location [-1]
20225179	ons2003	3	2	3	7	2	5	3	5	1	31	Insufficient descriptions about the materials, Li function and emitter sampling [-3] Wrong report file location [-1]
20245252	Misheel28	3	2	2	7	0	0	0	4	1	19	Mirror doesn't use a reflectance parameter [-1] Test scene(bubble) not used [-2] Incorrect emitter sampling process [-5] Incorrect multiple emitters implementation [-3] No descriptions about block rendering and multiple emitters [-2] Insufficient descriptions about Li function and emitter sampling [-2] Wrong report file location [-1]
20268008	MisterRath	2	2	3	7	2	5	3	7	2	33	Incorrect ray-sphere intersection [-1] Insufficient description about Li function [-1]
20215115	N/A	0	0	0	0	0	0	0	0	0	0	No submission [-35]
20235203	no-ikjun	3	2	3	7	2	5	3	7	2	34	Insufficient description about Li function [-1]
20225069	oackmoon60	3	0	3	7	2	5	3	5	2	30	RenderBlock malfunctioning [-2] Insufficient descriptions about the materials, emitter sampling and multiple emitters [-3]
20255070	rhseung	3	2	3	7	2	5	3	7	2	34	Insufficient description about Li function [-1]
20235031	saddummy5031	3	2	3	7	2	5	3	6	2	33	Insufficient descriptions about emitter sampling and multiple emitters [-2]
20225084	seoumwon	3	2	3	7	2	0	3	8	1	29	Incorrect emitter sampling process [-5] Wrong report file location [-1]
20225186	seohyj	3	2	3	7	2	5	3	8	2	35	
20261093	seekmin0310	0	1	2	7	0	0	3	0	0	13	Test scene(cbox-sphere) not used [-3] Incorrect antialiasing [-1] Mirror doesn't use a reflectance parameter [-1] Test scene(bubble) not used [-2] Incorrect emitter sampling process [-5] No report [-10]
20205098	sleep23	3	0	3	7	2	5	3	8	2	33	RenderBlock malfunctioning [-2]
20205049	starrytl	3	2	2	7	2	5	3	4	2	30	Mirror doesn't use a reflectance parameter [-1] Insufficient descriptions about block rendering, materials, Li function and emitter sampling [-4]
20255150	wir-min-06	3	2	3	7	2	5	3	7	2	34	Insufficient description about block rendering [-1]
20245116	yangminseo	3	2	3	7	2	0	3	8	2	30	Incorrect emitter sampling process [-5]
20225161	YS0421	3	2	3	7	2	5	3	8	2	35	
20225017	zerOpacity	0	0	2	7	0	0	3	3	2	17	Test scene(cbox-sphere) not used [-3] Renderblock not implemented [-2] Mirror doesn't use a reflectance parameter [-1] Test scene(bubble) not used [-2] Incorrect emitter sampling [-5] No result images [-3] Insufficient descriptions about emitter sampling and multiple emitters [-2]

Statistics	
Avg	Std
28.26470598	9.185374639

Penalty				
Types	Subtypes	Cases	Penalty Score	
Task 1 (15)	Test Scene (3)	Unmet minimum depth	1	
		No ray-sphere intersection code	1	
		Unoperational ree-off switching parameter	1	
	Antialiasing & Convergence (2)	No antialiasing	1	
		No convergence	1	
		Malfunctioning renderBlock function	2	
		renderBlock not implemented	2	
	Materials (3)	Incorrect diffuse implementation	1	
		Incorrect mirror implementation	1	
		Incorrect dielectric implementation	1	
Task 2 (10)	BSDF Sampling (7)	Incorrect BSDF sampling process	7	
		Test Scene (2)	Unmet minimum depth	1
	Emitter Sampling (5)	Unoperational ree-on switching parameter	1	
		Incorrect emitter sampling process	5	
	Multiple Emitters (3)	Incorrect computation related to measure	3	
		Report (10)	Sufficient evidences (8)	No result images
	Insufficient evidences for each component			5
Format (2)	Missing student information			1
Uncompatible file format	1			
Wrong report file location	1			
No report	2			

Contact		
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