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Programming course

Programming is challenging



 Need to learn the **Theory** before being able to write program



Covering Theory in class takes time,
leading to lack of time for problem solving



Watch-Think-Write-Share Strategy



Watch videos posted online



Think about questions on the videos





Write key points and create ONE question



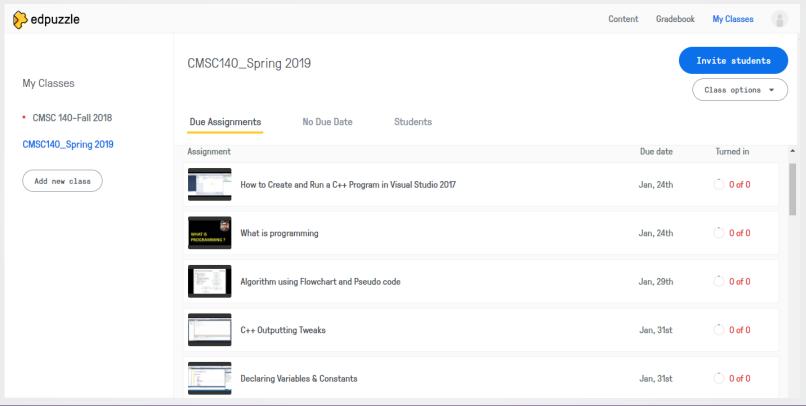
Share in class key points and ONE question

During Class



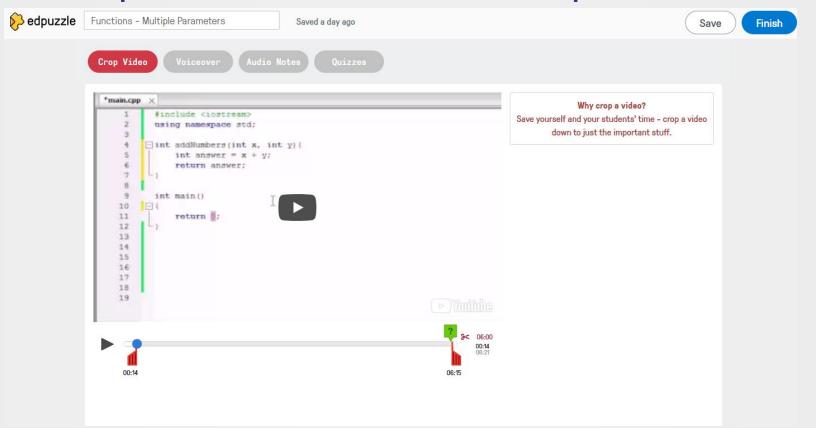


Watch Videos Posted on edPuzzle



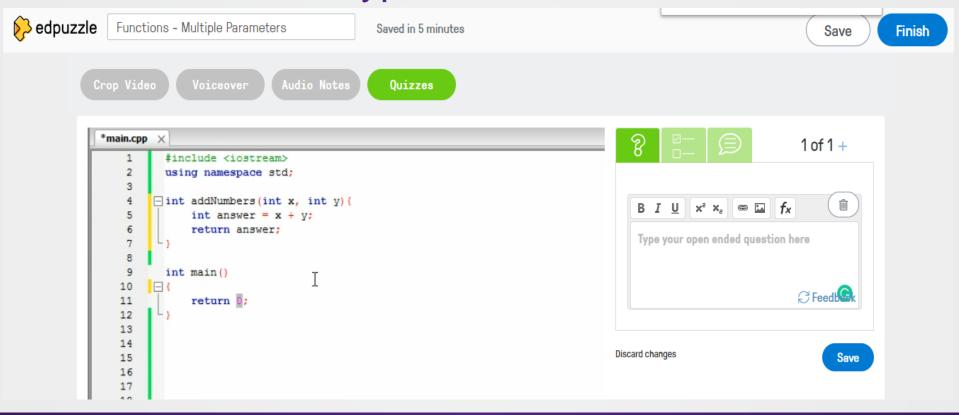


^{25/11/2019} Crop Video, Add Audio, Add quizzes



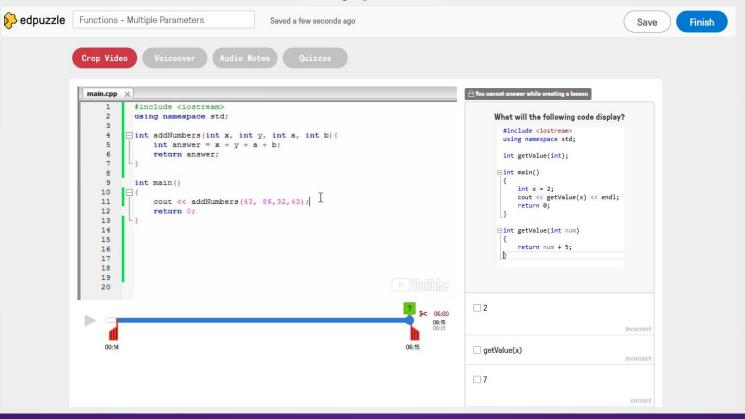
Ø/11/2019

Add Different types of Questions





Add Different types of Questions



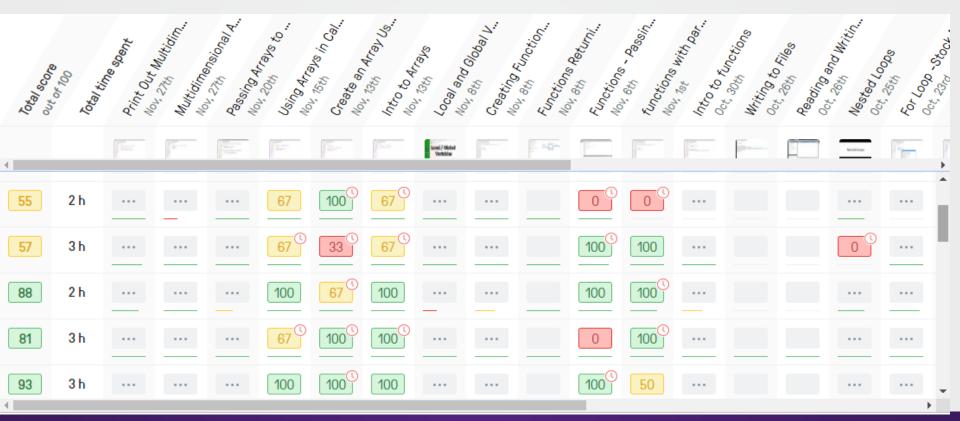


Students Progress

	0/100	Sep, 3rd	On time	···
•	0/100	Aug, 29th	Not turned in	
_	0/100	Sep, 6th	Not turned in	
•	0/100	Never	Not turned in	
	90/100	Sep, 17th	Not turned in	
	90/100	Aug, 29th	On time	
	90/100	Aug, 30th	On time	
	99/100	Aug, 28th	On time	
	99/100	Aug, 28th	On time	
-	100/100	Aug, 30th	Not turned in	
	100/100	Sep, 6th	On time	
	100/100	Aug, 30th	On time	

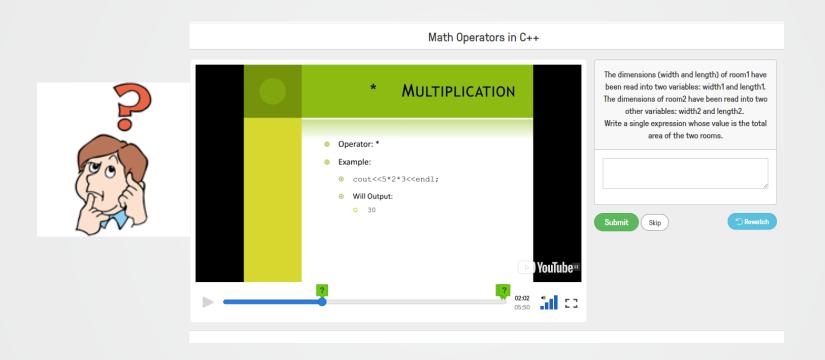


Gradebook



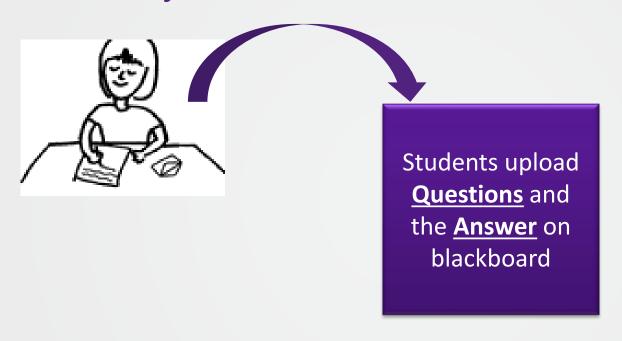


Think about Questions on the Videos





Write Key Points and Create ONE Question





Share in Class Key Points and ONE Question



Typical Class Activities

- Short 5 min Quiz
- Worksheet
 - Short Answer Questions
 - Programming Questions



Students' Survey

Watched Videos on Time		Effectiveness of Videos in class discussions?
90%	75%	80%



Students' Survey

- I think that we should be given the answers to the programming questions videos, that would help students understand their mistakes.
- if they were shorter and more of them
- The questions were difficult to understand and you only had one try for them.
- They shouldn't be grades because if the students don't understand the material it is helpful if the teacher still spends time instructing



Comparing Midterm Exam Results

Class	# of Students	Average Grade	Max	Min
Fall 2018	25	<u>83</u>	96	55
Spring 2018	22	<u>74</u>	97	46
Fall 2017	25	<u>75</u>	96	31



Comparing the Final Exam results

Class	# of Students	Average Grade	Max	Min
Fall 2018	24	<u>78</u>	93	35
Spring 2018	22	<u>53</u>	92	15
Fall 2017	25	<u>55</u>	96	31





