#### 程序代写代做 CS编程辅导



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A friendly reminder that Assignment 1 is due this Sunday at 8pm.

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Additionally, make sure you know how to get your labs marked submit by the deadlings them term protecthe next Hebiand enter the lab marking queue. If you didn't do this for lab01, I'm happy to (as an exceptional one-offmark yor quickly if you email me.

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Intro

## 程序代写代做CS编程辅导

- 1. What's the difference veen Node.js and NPM?

  Node.js is a JavaScript runtime environment. It lets developers use JavaScript to write command line tools and for
- developers use Javabary to the server-side scripting. NPM is a package manager to help manage Node.js projects and Projects between WPM3and Yarn?

  2. What's the difference between WPM3and Yarn?
- Generally very little to a novice user. You can do your research to learn the differences between them, but on small scale applications the differences are negligible.

Where do we general CSS imports in our HTML?

What are some advantages to enternal CSS)? It's easy, it only man it into the property of the content of the co

## Aside: Separation of Concerns

The Web used to wo rating HTML, CSS and JS into different files, under La Separation of Concerns. Every webpage would've had a very surce files. With the advent of technologies like React, we began to consider our concerns by components not markup / styling / dynamic behaviour.

That is, you'll commonly and Holer Holer Fram Helpgether — I think this is a good thing; because the 120M (a JS concept) is so closely tied with HTML. Additionally, structuring files by component enables easy revenue 476

However, some peoplethave/hadrpartionarly zealous opinions for and against: see this thread and this talk.





↓ JS imports in our HTML? Where do we general

JavaScript imports usually go at the bottom of our <body> tag. This is to ensure that the default elements in the DOM fully load before our JavaScriptAsylichmentePalbjeiot Fracts Withpthe DOM) is run.

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However, another solution is to use the defer attribute on the

<script> tag (see: QQ:a740089476

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Why do we use clase React, but class in vanilla JavaScript? WeChat: cstutores

className is the JSX component property that equates to classismment plegiest Exam Help

Really, it's because class is a reserved keyword in JavaScript, and JSX is an extension upon tayassuript 6

JS Art

## Exercise: Interactive Building Art



The file building.html contains some HTML and CSS, which we are going to use to create some shiteractive art. However, we will not be editing building; html directly ct Enstead we will use JavaScript and the DOM API in the script building.js to manipulate the DOMEmail: tutorcs@163.com

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# Task 1: Looking at the Code

Firstly, before render Market ML file, what can you tell about the page? What sort nts does the HTML body contain? What do you notice about the CSS?

The body only contains two elements: one is a div tag with the classibuilding, Pthreether and Heapipt tag. When the HTML renders it will execute whatever code is in building is Email: cytorist@hig contains the regular styling for body, elements with ID building and elements with class window, but it also seems to define styling for these elements intrometurights roode'.

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The night mode styling works using more advanced CSS selectors (specifically, attribute selectors stutores

They're pretty easy to understand page MDN and good cheatsheet.

BTW, the Emmet abbreviations are based on CSS selectors, so learning them will help you write your HTML more quickly!

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Using only JavaScrip Ward the COMPAPI, add 9 square windows (with class window) to the building. The windows should be  $50 \times 50$ px, with a margin of 25px.

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# Task 3: Dynamic Windows



Now, add a keyboard shortcut that will add a window when the up (ArrowUp) button is Wesseldtand Wentove a window when the down (ArrowDown) button is pressed.
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There are three KeyboardEvent events: keydown, keyup and keypress (deprecated) all suggest defaulting to keydown.

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# Task 4: Dynamic Building Cs编程辅导



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Add another keyboard shortcut that will move the building left/right by 50px whan sthen left/right but to name of the left/right by 50px whan sthen left/right by 50px what sthen left/right by 50px what sthen left/right by 50px what sthen left/right by 50px which sthen left/right by 50px which sthen left/right by 50px what sthen left/right by 50px which sth

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## Task 5: Toggle-able Night Mode



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Add an event handler that will toggle on/off night mode when the user clicks anywhere And here Project Exam Help

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