

The List

by [nickapic](#) / [Class3E](#)

Tags: [pwn](#)

Rating:

```
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<script crossorigin="anonymous" defer="defer" integrity="sha512-7vazCSTbHAMhDkKepqPuoJu521BVS1uKBKdUtIK5Uy1sfULXuR6tFSZ16eU4TdMaf2hR4riO/QRI/9g==" t
ype="application/javascript" data-module-id="/chunk-tweetsodium.js" data-src="https://github.githubassets.com/assets/chunk-tweetsodium-eeef6b309.js"></scri
pt>
<script crossorigin="anonymous" defer="defer" integrity="sha512-AVKfkEKBf/JCvS2PoakItu304k6Gt9oSMBW2R/eEfGsGuTmc9QeiQw//IJJKFRQdrzpha/FoC/cws9v6dsujQ==" t
ype="application/javascript" data-module-id="/chunk-jump-to.js" data-src="https://github.githubassets.com/assets/chunk-jump-to-01529fa8.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-mQXS2Avj7521lCnDeeAaUwOnLa3aaG1S1ApB7zeboZBS1LzsvM11kEJdM7VIAh+XwYYT/D61qtIwJ01/Kvbk2Q==" t
ype="application/javascript" data-module-id="/chunk-user-status-submit.js" data-src="https://github.githubassets.com/assets/chunk-user-status-submit-9905d
```

```
2d8.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-4xtUJAtGhsZOLkSHoir8MWF0vKHoR4t6lR36xsg1kGrE9ftN4B8E21k2TT5jSkqz5x8z7BfZKj/eUuwcZMEQ==" t
ype="application/javascript" data-module-id="/chunk-launch-code-element.js" data-src="https://github.githubassets.com/assets/chunk-launch-code-element-e31
b6350.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-NilVxyBbQNj61v85EVC3Vj90sz5tz+b01aR1h1R+jIFXNT8Vhoa1RgPXREht+R3JIZF5fiqkKHzy3+01pX4ZDg==" t
ype="application/javascript" data-module-id="/chunk-metric-selection-element.js" data-src="https://github.githubassets.com/assets/chunk-metric-selection-e
lement-362955c7.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-VtwQp1HbSSWx0sB5a8wzprRH8B17/vD0jBgXsp2K2CTYkhfq/LAWps52SnVQjcRPOB2svCvAJV20hyFuCbGL3w==" t
ype="application/javascript" data-module-id="/chunk-severity-calculator-element.js" data-src="https://github.githubassets.com/assets/chunk-severity-calcul
ator-element-56dc10a7.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-yXHkwiNZBg600ISDKE8jrZzTtTyF8YdFFXHcemhWEPuN3sWs1PQrSwEh0Gw4/B9TizUfvogbqlJ71yLUqyM+Q==" t
ype="application/javascript" data-module-id="/chunk-readme-toc-element.js" data-src="https://github.githubassets.com/assets/chunk-readme-toc-element-c971e
4c2.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-QMvMhJF7+RjNuy+lp8zP+XbKf08C36NV0w6CMk0WRGA01kmoNhTc+FjH85EBFx/sDurFeYqerS3NGhusJncMA==" t
ype="application/javascript" data-module-id="/chunk-feature-callout-element.js" data-src="https://github.githubassets.com/assets/chunk-feature-callout-ele
ment-40cbcc84.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-SyYXfc8EbL09BnTas69LeNMF6aXITT41QsFoIuEHHT/0i9+WQAV7ZFbu944TFS7HHFu9eRgmdq1MU/W12Q8xw==" t
ype="application/javascript" data-module-id="/chunk-sortable-behavior.js" data-src="https://github.githubassets.com/assets/chunk-sortable-behavior-4b26177
d.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-6JUQHgkTqBacCdDugMcO4fQ8YxUHK+m6rwVp2Wxa4FMVz6BbBMP0zGlU4wBq8NTUCFv6DnXSont5e85jNgpGg==" t
ype="application/javascript" data-module-id="/chunk-drag-drop.js" data-src="https://github.githubassets.com/assets/chunk-drag-drop-e895101e.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-28pipPJZvizFcYYETJWBBeDHsrDEz7A06d7Y5swgY/OwmsX0ZJW6mkZVFR07Z/xZh1D1qFbPHGNixfCd1YpBnA==" t
ype="application/javascript" data-module-id="/chunk-contributions-spider-graph.js" data-src="https://github.githubassets.com/assets/chunk-contributions-sp
ider-graph-dbca62a4.js"></script>
<script crossorigin="anonymous" defer="defer" integrity="sha512-y0yuiXfwUeICcUBT1jacp25wnFCJwgLMS61VM4tmCHdoQbiVjvw/vuSuEXUjtS8WwdioTD5hVv9UULiUlw==" t
ype="application/javascript" data-module-id="/chunk-webgl-warp.js" data-src="https://github.githubassets.com/assets/chunk-webgl-warp-cb4cae89.js"></script>
>
```

```
<script crossorigin="anonymous" defer="defer" integrity="sha512-
3R5+VhOHwJbG+s7VKIj1HjwVKo/RPIdgUh98Yed4XMlk1jH7LP20vRYmLUqnVzVazcgx9x9XdWmQWkaBRQfsVvg==" type="application/javascript"
src="https://github.githubassets.com/assets/codespaces-dd1e7e56.js"></script> <script crossorigin="anonymous" defer="defer" integrity="sha512-
tfzZxJCbul4TLTQMd9EJzuvXoLZGUCnWTiuJCGnXlaABfL2eD0J/IL9bIT+JbF1dQvKi1g/E7396zAKdrZTA==" type="application/javascript"
src="https://github.githubassets.com/assets/repositories-b5fcd9c4.js"></script> <script crossorigin="anonymous" defer="defer" integrity="sha512-
CfJc9iAnfLJnxnvSY41oW/N+iuVSia2CCj/v47XVliM9ACQPKur94EPHnokX0RG8e+FPMhJ2CGy9FfqLYZi4Dg==" type="application/javascript"
src="https://github.githubassets.com/assets/topic-suggestions-09f25cf6.js"></script> <script crossorigin="anonymous" defer="defer" integrity="sha512-
Y9QCffkHDK3/KAoYUMhKKeokbNIXWgpO+53XrcRwhUWzMtXEmhnp1ce7OVWP3vOzhCFWaxxnKWW9eVjny8nRA==" type="application/javascript"
src="https://github.githubassets.com/assets/code-menu-63d4027d.js"></script>
```

```
<meta name="viewport" content="width=device-width">

<title>NahamCon2021-Writups/pwn/theList at master · Class-3E/NahamCon2021-Writups · GitHub</title> <meta name="description" content="Contribute to Class-
3E/NahamCon2021-Writups development by creating an account on GitHub."> <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml"
title="GitHub"> <link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub"> <meta property="fb:app_id" content="1401488693436528"> <meta name="apple-itunes-app"
content="app-id=1477376905" /> <meta name="twitter:image:src"
content="https://opengraph.githubassets.com/d527e8c88958e98acf6e1e016cca9cd9d232580075d39eb3f013cf13134917cf/Class-3E/NahamCon2021-Writups" /><meta
name="twitter:site" content="@github" /><meta name="twitter:card" content="summary_large_image" /><meta name="twitter:title" content="NahamCon2021-Writups/pwn/theList at
master · Class-3E/NahamCon2021-Writups" /><meta name="twitter:description" content="Contribute to Class-3E/NahamCon2021-Writups development by creating an account on
GitHub." /> <meta property="og:image" content="https://opengraph.githubassets.com/d527e8c88958e98acf6e1e016cca9cd9d232580075d39eb3f013cf13134917cf/Class-
3E/NahamCon2021-Writups" /><meta property="og:image:alt" content="Contribute to Class-3E/NahamCon2021-Writups development by creating an account on GitHub." /><meta
property="og:image:width" content="1200" /><meta property="og:image:height" content="600" /><meta property="og:site_name" content="GitHub" /><meta property="og:type"
content="object" /><meta property="og:title" content="NahamCon2021-Writups/pwn/theList at master · Class-3E/NahamCon2021-Writups" /><meta property="og:url"
content="https://github.com/Class-3E/NahamCon2021-Writups" /><meta property="og:description" content="Contribute to Class-3E/NahamCon2021-Writups development by
creating an account on GitHub." />

<link rel="assets" href="https://github.githubassets.com/">

<meta name="request-id" content="BB03:E6C4:129C6C2:139E61C:6183077C" data-pjax-transient="true"/><meta name="html-safe-nonce"
content="6bf560f31a5c95aac4eb57cdf0f18224939f336ae35a6c8a41756896f1c99942" data-pjax-transient="true"/><meta name="visitor-payload"
content="eyJyZWZlcnJlci6liiSlNjlcXVlc3RfaWQoJiJCQjAzOkUzQzQ6MTI5QzZDMjoxMzFlNFJFOjYxODMwNzZDLiwiZmlzaXRvcj9pZCI6Ijg0MzUzZmZ3QzNzEzMjQ1LjYyZWdpb25fZ
data-pjax-transient="true"/><meta name="visitor-hmac" content="a37077a8afb2ae393a7f911e80d265ad63ab6f9192fbf7170bc5f272890335" data-pjax-transient="true"/>
```

```
<meta name="hovercard-subject-tag" content="repository:347462794" data-pjax-transient>
```

```
<meta name="github-keyboard-shortcuts" content="repository,source-code" data-pjax-transient="true" />
```

```
<meta name="selected-link" value="repo_source" data-pjax-transient>
```

```
<meta name="google-site-verification" content="c1kuD-K2HIVF6351ypcsWPoD4kilo5-jA_wBFyT4uMY">
```

```
<meta name="google-site-verification" content="KT5gs8h0wvaagLKAVVq8bbeNwnZZK1r1XQysX3xurLU"> <meta name="google-site-verification" content="ZzhVyEFwb7w3e0-
uOTlrm8Jsc2F5StVihD0exw2fsA"> <meta name="google-site-verification" content="GXs5KoUUkNCoaAZn7wPN-t01Pywpp9M3sEjnt_3_ZWPc">
```

```
<meta name="octolytics-url" content="https://collector.githubapp.com/github/collect" />
```

```
<meta name="analytics-location" content="/<user-name>/<repo-name>/files/disambiguate" data-pjax-transient="true" />
```

```
<meta name="hostname" content="github.com">
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">

<meta name="enabled-features" content="MARKETPLACE_PENDING_INSTALLATIONS,FILE_UPLOAD_CURSOR_POSITION">
```

```
<meta http-equiv="x-pjax-version" content="89408a5ac57f5b71ed7ebb466b241a52be13289bf52f580353d1ab3681a2237"> <meta http-equiv="x-pjax-csp-version"
content="9ea82e8060ac9d44365bfa193918b70ed58abd9413362ba412abb161b3a8d1b6"> <meta http-equiv="x-pjax-css-version"
content="8c75751aad52ee8322f8435d51506c1b59a636003602b767a0b479bdf5ebc22"> <meta http-equiv="x-pjax-js-version"
content="3cad26b543586e12a4ad3073df6bdfcfce52ab9dafecfd0ffc60594d519fb9b5">
```

```
<meta name="go-import" content="github.com/Class-3E/NahamCon2021-Writups git https://github.com/Class-3E/NahamCon2021-Writups.git">
```

```
<meta name="octolytics-dimension-user_id" content="77891481" /><meta name="octolytics-dimension-user_login" content="Class-3E" /><meta name="octolytics-dimension-repository_id" content="347462794" /><meta name="octolytics-dimension-repository_nwo" content="Class-3E/NahamCon2021-Writeups" /><meta name="octolytics-dimension-repository_public" content="true" /><meta name="octolytics-dimension-repository_is_fork" content="false" /><meta name="octolytics-dimension-repository_network_root_id" content="347462794" /><meta name="octolytics-dimension-repository_network_root_nwo" content="Class-3E/NahamCon2021-Writeups" />
```

```
<link rel="canonical" href="https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList" data-pjax-transient>
```

```
<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<meta name="browser-optimizely-client-errors-url" content="https://api.github.com/_private/browser/optimizely_client/errors">
<link rel="mask-icon" href="https://github.githubassets.com/pinned-octocat.svg" color="#000000"> <link rel="alternate icon" class="js-site-favicon" type="image/png" href="https://github.githubassets.com/favicons/favicon.png"> <link rel="icon" class="js-site-favicon" type="image/svg+xml" href="https://github.githubassets.com/favicons/favicon.svg">
<meta name="theme-color" content="#1e2327"> <meta name="color-scheme" content="light dark" />
<link rel="manifest" href="/manifest.json" crossOrigin="use-credentials">
</head>
<body class="logged-out env-production page-responsive" style="word-wrap: break-word;">
```

```
<div class="position-relative js-header-wrapper "
  <a href="#start-of-content" class="px-2 py-4 color-bg-info-inverse color-text-white show-on-focus js-skip-to-content">Skip to content</a>
  <span data-view-component="true" class="progress-pjax-loader js-pjax-loader-bar Progress position-fixed width-full">
    <span style="width: 0%;" data-view-component="true" class="Progress-item progress-pjax-loader-bar color-bg-info-inverse"></span>
  </span>
```

```
</span>
<header class="Header-old header-logged-out js-details-container Details position-relative f4 py-2" role="banner"> <div class="container-xl d-lg-flex flex-items-center p-responsive">
<div class="d-flex flex-justify-between flex-items-center"> <a class="mr-4" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out) Header, go to homepage, icon:logo-wordmark"> <svg height="32" aria-hidden="true" viewBox="0 0 16 16" version="1.1" width="32" data-view-component="true" class="octicon octicon-mark-github color-text-white"> <path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 4.07 55-.17 55-.38 0-.19-.01-.82-.01-1.49-2.01 37-2.53-49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53 63-.01 1.08 58 1.23 82.72 1.21 1.87 87 2.33 66.07-.52 28-.87 51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87 31-1.59 82-2.15-.08-.2-36-1.02 08-2.12 0 0 .67-.21 2.82 64-.18 1.32-.27 2-.27 68 0 1.36 09 2 .27 1.53-1.04 2.2-.82 2.2-.82 44 1.1 16 1.92 08 2.12 51.56 82 1.27 82 2.15 0 3.07-1.87 3.75-3.65 3.95 29.25 54.73 54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21 15.46 55.38 80.013 8.013 0 0016 8c0-4.42-3.58-8-8z"></path> </svg> </a>
```

```
<div class="d-lg-none css-truncate css-truncate-target width-fit p-2">

</div>

<div class="d-flex flex-items-center">
  <a href="/signup?ref_cta=Sign-up&amp;ref_loc=header+logged+out&amp;ref_page=%2F%3Cuser-name%3E%2F%3Crepo-name%3E%2Ffiles%2Fdisambiguate&amp;source=header-repo"
    class="d-inline-block d-lg-none f5 color-text-white no-underline border color-border-default rounded-2 px-2 py-1 mr-3 mr-sm-5"
    data-hydro-click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_page&quot;:&quot;site header&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;SIGN_UP&quot;,&quot;originating_url&quot;:&quot;https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList&quot;,&quot;user_id&quot;:null}}}" data-hydro-click-hmac="b4f25e531004b53a8f1eac4f8e3929ab9bc297daf00b7b591aafef4220de2bea"
    >
    Sign up
  </a>

  <button aria-label="Toggle navigation" aria-expanded="false" type="button" data-view-component="true" class="js-details-target btn-link d-lg-none mt-1">

    <svg aria-hidden="true" height="24" viewBox="0 0 16 16" version="1.1" width="24" data-view-component="true" class="octicon octicon-three-bars color-text-white">
<path fill-rule="evenodd" d="M1 2.75A.75.75 0 011.75 2h12.5a.75.75 0 11 1.5H1.75A.75.75 0 01 2.75zm0 5A.75.75 0 011.75 7h12.5a.75.75 0 11 1.5H1.75A.75.75 0 01 7.75zm1.75 12a.75.75 0 010 1.5h12.5a.75.75 0 10-1.5H1.75z"></path>

</svg>

</button> </div> </div>
```

```
<div class="HeaderMenu HeaderMenu--logged-out position-fixed top-0 right-0 bottom-0 height-fit position-lg-relative d-lg-flex flex-justify-between flex-items-center flex-auto">
  <div class="d-flex d-lg-none flex-justify-end border-bottom color-bg-subtle p-3">
    <button aria-label="Toggle navigation" aria-expanded="false" type="button" data-view-component="true" class="js-details-target btn-link">

      <svg aria-hidden="true" height="24" viewBox="0 0 24 24" version="1.1" width="24" data-view-component="true" class="octicon octicon-x color-icon-secondary">
<path fill-rule="evenodd" d="M5.72 5.72a.75.75 0 011.06 0L12 10.9415 22 5.22a.75.75 0 111.06 1.06L13 13.061 22 5.22a.75.75 0 01-1.06-1.06L10.94 12 5.72 6.78a.75.75 0 010-1.06z"></path>

</svg>

</button> </div>
```

```
<nav class="mt-0 px-3 px-lg-0 mb-5 mb-lg-0" aria-label="Global">
  <ul class="d-lg-flex list-style-none">
    <li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
      <details class="HeaderMenu-details details-overlay details-reset width-full">
        <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
          Why GitHub?
          <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-down-mktg position-absolute position-lg-relative">
          e">
```



```
        <path d="M1,116.2,6L13,1"></path>
    </svg>
</summary>
<div class="dropdown-menu flex-auto rounded px-0 mt-0 pb-4 p-lg-4 position-relative position-lg-absolute left-0 left-lg-n4">
    <a href="/features" class="py-2 lh-condensed-ultra d-block Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Features">Features <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a>
    <ul class="list-style-none f5 pb-3">

        <li class="edge-item-fix"><a href="/mobile" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">
Mobile <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/actions" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Actions <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/codespaces" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Codespaces <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/packages" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Packages <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/security" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Security <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/code-review/" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Code review <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/issues/" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Issues <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/features/integrations" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">Integrations <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>

    </ul>

    <ul class="list-style-none mb-0 border-lg-top pt-lg-3">
        <li class="edge-item-fix"><a href="/sponsors" class="py-2 lh-condensed-ultra d-block no-underline Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Sponsors">GitHub Sponsors <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="/customer-stories" class="py-2 lh-condensed-ultra d-block no-underline Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Customer stories">Customer stories<span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
    </ul>
</div>
</details>
</li>
<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
    <a href="/team" class="HeaderMenu-link no-underline py-3 d-block d-lg-inline-block" data-ga-click="(Logged out) Header, go to Team">Team</a>
</li>
<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
    <a href="/enterprise" class="HeaderMenu-link no-underline py-3 d-block d-lg-inline-block" data-ga-click="(Logged out) Header, go to Enterprise">Enterprise</a>
</li>

<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
    <details class="HeaderMenu-details details-overlay details-reset width-full">
        <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
            Explore
            <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-down-mktg position-absolute position-lg-relative left-1">
                <path d="M1,116.2,6L13,1"></path>
            </svg>
        </summary>

        <div class="dropdown-menu flex-auto rounded px-0 pt-2 pb-0 mt-0 pb-4 p-lg-4 position-relative position-lg-absolute left-0 left-lg-n4">
            <ul class="list-style-none mb-3">
                <li class="edge-item-fix"><a href="/explore" class="py-2 lh-condensed-ultra d-block Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Explore">Explore GitHub <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>

            </ul>

            <h4 class="color-fg-muted text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Learn and contribute</h4>
            <ul class="list-style-none mb-3">
                <li class="edge-item-fix"><a href="/topics" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Topics">Topics <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
                <li class="edge-item-fix"><a href="/collections" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Collections">Collections <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
                <li class="edge-item-fix"><a href="/trending" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Trending">Trending <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
                <li class="edge-item-fix"><a href="https://lab.github.com/" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Learning lab">Learning Lab <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
                <li class="edge-item-fix"><a href="https://opensource.guide" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Open source guides">Open source guides <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>

            </ul>

            <h4 class="color-fg-muted text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Connect with others</h4>
            <ul class="list-style-none mb-0">
                <li class="edge-item-fix"><a href="https://github.com/readme" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover">The README Project <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
                <li class="edge-item-fix"><a href="https://github.com/events" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Events">Events <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>

            </ul>

        </div>
    </li>
</ul>
</div>
```

```
pan></a></li>
    <li class="edge-item-fix"><a href="https://github.community" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Community forum">Community forum <span class="Bump-link-symbol float-right text-normal color-fg-muted d pr-3">&arr;</span></a></li>
    <li class="edge-item-fix"><a href="https://education.github.com" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to GitHub Education">GitHub Education <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
    <li class="edge-item-fix"><a href="https://stars.github.com" class="py-2 pb-0 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to GitHub Stars Program">GitHub Stars program <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
  </ul>
</div>
</details>
</li>

<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
  <a href="/marketplace" class="HeaderMenu-link no-underline py-3 d-block d-lg-inline-block" data-ga-click="(Logged out) Header, go to Marketplace">Marketplace</a>
</li>

<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
  <details class="HeaderMenu-details details-overlay details-reset width-full">
    <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
      Pricing
      <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-down-mktg position-absolute position-lg-relative">
        <path d="M1,116.2,6L13,1"></path>
      </svg>
    </summary>

    <div class="dropdown-menu flex-auto rounded px-0 pt-2 pb-4 mt-0 p-lg-4 position-relative position-lg-absolute left-0 left-lg-n4">
      <a href="/pricing" class="pb-2 lh-condensed-ultra d-block Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Pricing">Plans <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a>

      <ul class="list-style-none mb-3">
        <li class="edge-item-fix"><a href="/pricing#feature-comparison" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Compare plans">Compare plans <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
        <li class="edge-item-fix"><a href="https://github.com/enterprise/contact" class="py-2 lh-condensed-ultra d-block Link--secondary no-underline f5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Contact Sales">Contact Sales <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
      </ul>

      <ul class="list-style-none mb-0 border-lg-top pt-lg-3">
        <li class="edge-item-fix"><a href="https://education.github.com" class="py-2 pb-0 lh-condensed-ultra d-block no-underline Link--primary no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Education">Education <span class="Bump-link-symbol float-right text-normal color-fg-muted pr-3">&arr;</span></a></li>
      </ul>
    </div>
  </details>
</li>
</ul>
</nav>

<div class="d-lg-flex flex-items-center px-3 px-lg-0 text-center text-lg-left">
  <div class="d-lg-flex min-width-0 mb-3 mb-lg-0">
```

```
<div class="header-search flex-auto js-site-search position-relative flex-self-stretch flex-md-self-auto mb-3 mb-md-0 mr-0 mr-md-3 scoped-search site-scoped-search js-jump-to"
```

```
<div class="position-relative"> <!-- "" --><!-- /textarea></xmp> --></option></form><form class="js-site-search-form" role="search" aria-label="Site" data-scope-type="Repository" data-scope-id="347462794" data-scoped-search-url="/Class-3E/NahamCon2021-Writeups/search" data-owner-scoped-search-url="/orgs/Class-3E/search" data-unscoped-search-url="/search" action="/Class-3E/NahamCon2021-Writeups/search" accept-charset="UTF-8" method="get"> <label class="form-control input-sm header-search-wrapper p-0 js-chromeless-input-container header-search-wrapper-search-to position-relative d-flex flex-justify-between flex-items-center"> <input type="text" class="form-control input-sm header-search-input jump-to-field js-jump-to-field js-site-search-focus js-site-search-field is-clearable" data-hotkey=s,/ name="q" data-test-selector="nav-search-input" placeholder="Search" data-unscoped-placeholder="Search GitHub" data-scoped-placeholder="Search" autocapitalize="off" role="combobox" aria-haspopup="listbox" aria-expanded="false" aria-autocomplete="list" aria-controls="jump-to-results" aria-label="Search" data-jump-to-suggestions-path="/_graphql/GetSuggestedNavigationDestinations" spellcheck="false" autocomplete="off" > <input type="hidden" data-csrf="true" class="js-data-jump-to-suggestions-path-csrf" value="6ACGdICk3wi/JA3gARcKuE4WaNUp0q5eCjgxKessDGB1UBk4n/m+9dqipQrdAjXAActP+aUi6XJBU7zv5VKraQ==" /> <input type="hidden" class="js-site-search-type-field" name="type" > <svg xmlns="http://www.w3.org/2000/svg" width="22" height="20" aria-hidden="true" class="mr-1 header-search-key-slash"><path fill="none" stroke="#979A9C" opacity=".4" d="M3.5,12c1.7 0 3 1.3 3 3v13c0 1.7 1.3 3 3 3h-12c-1.7 0 3 1.3 3 3v-13c0 1.7 1.3 3 3 3z"></path><path fill="#979A9C" d="M11.8 6L8 15.1h-.9L10.8 6h1z"></path></svg>
```

```
<div class="Box position-absolute overflow-hidden d-none jump-to-suggestions js-jump-to-suggestions-container">
```

```
<ul class="d-none js-jump-to-suggestions-template-container">

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-suggestion" role="option"> <a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center jump-to-suggestions-path js-jump-to-suggestion-path js-navigation-open p-2" href="" data-item-type="suggestion"> <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none"> <svg title="Repository" aria-label="Repository" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-repo js-jump-to-octicon-repo js-jump-to-octicon-repo d-none flex-shrink-0"> <path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 00 1.75v12.5C0 15.216 7.84 16 16 16h12.5A1.75 1.75 0 00 14.25V1.75A1.75 1.75 0 014.25 0H1.75zM1.75 25.25 0 01-.75 25.75h-2.5A.75 .75 0 110-11.5h1.75v-2h-8a1 1 0 00-.714 1.7.75 0 01-1.072 1.05A2.495 2.495 0 012 11.5v-9zm10.5-1V9h-8c-.356 0-.694 0.74-1.208V2.5a1 1 0 01-1h8zM5 12.25v3.25a.25 .25 0 00 4.214 5.108a.25 .25 0 01 3.3 0L8.6 15.75a.25 .25 0 00 4-.2v-3.25a.25 .25 0 00-.25-.25h-3.5a.25 .25 0 00-.25.25z"></path> </svg> <svg title="Project" aria-label="Project" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-project js-jump-to-octicon-project d-none flex-shrink-0"> <path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 000 1.75v12.5C0 15.216 7.84 16 16 16h12.5A1.75 1.75 0 00 14.25V1.75A1.75 1.75 0 014.25 0H1.75zM1.75 25.25 0 01-.75 25.75h-2.5A.75 .75 0 110-11.5h1.75v-2h-8a1 1 0 00-.714 1.7.75 0 01-1.072 1.05A2.495 2.495 0 012 11.5v-9zm10.5-1V9h-8c-.356 0-.694 0.74-1.208V2.5a1 1 0 01-1h8zM5 12.25v3.25a.25 .25 0 00 4.214 5.108a.25 .25 0 01 3.3 0L8.6 15.75a.25 .25 0 00 4-.2v-3.25a.25 .25 0 00-.25-.25h-3.5a.25 .25 0 00-.25.25z"></path> </svg> <svg title="Search" aria-label="Search" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-search js-jump-to-octicon-
```

search d-none flex-shrink-0"> <path fill-rule="evenodd" d="M11.5 7a4.499 4.499 0 11-8.998 0A4.499 4.499 0 0111.5 7zm-.82 4.74a6 6 0 11.06-1.06l3.04 3.04a.75.75 0 11-1.06 1.06l-3.04-3.04z"></path> </svg> </div>

```
<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">
</div>

<div class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none js-jump-to-badge-search">
  <span class="js-jump-to-badge-search-text-default d-none" aria-label="in this repository">
    In this repository
  </span>
  <span class="js-jump-to-badge-search-text-global d-none" aria-label="in all of GitHub">
    All GitHub
  </span>
  <span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>
</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none d-on-nav-focus js-jump-to-badge-jump">
  Jump to
  <span class="d-inline-block ml-1 v-align-middle"></span>
</div>
```


<ul class="d-none js-jump-to-no-results-template-container"> <li class="d-flex flex-justify-center flex-items-center f5 d-none js-jump-to-suggestion p-2"> No suggested jump to results

<ul id="jump-to-results" role="listbox" class="p-0 m-0 js-navigation-container jump-to-suggestions-results-container js-jump-to-suggestions-results-container">

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-scoped-search d-none" role="option"> <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none"> <svg title="Repository" aria-label="Repository" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-repo js-jump-to-octicon-repo d-none flex-shrink-0"> <path fill-rule="evenodd" d="M2 2.5A2.5 2.5 0 014.5 0h8.75a.75.75 0 01.75.75v12.5a.75.75 0 01-.75.75h-2.5a.75.75 0 110-1.5h1.75v-2h-8a1 1 0 00-.714 1.7.75.75 0 01-1.072 1.05A2.495 2.495 0 012 11.5v-9zm10.5-1V9h-8c-.356 0-.694.074-1.208V2.5a1 1 0 011-1h8zM5 12.25v3.25a.25.25 0 00.421.45-1.087a.25.25 0 01.3 0L8.6 15.7a.25.25 0 00.4-.2v-3.25a.25.25 0 00-.25-.25h-3.5a.25.25 0 00-.25.25z"></path> </svg> <svg title="Project" aria-label="Project" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-project js-jump-to-octicon-project d-none flex-shrink-0"> <path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 000 1.75v12.5C0 15.216.784 16 1.75 16h12.5A1.75 1.75 0 0016 14.25V1.75A1.75 1.75 0 0014.25 0H1.75zM1.5 1.75a.25.25 0 01.25-.25h12.5a.25.25 0 01.25.25v12.5a.25.25 0 01-.25.25H1.75a.25.25 0 01-.25-.25V1.75zM11.75 3a.75.75 0 00-.75.75v7.5a.75.75 0 001.5 0v-.75-.75zm-8.25.75a.75.75 0 011.5 0v5.5zM8 3a.75.75 0 00-.75.75v3.5a.75.75 0 001.5 0v-3.5A.75.75 0 008 3z"></path> </svg> <svg title="Search" aria-label="Search" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-search js-jump-to-octicon-search d-none flex-shrink-0"> <path fill-rule="evenodd" d="M11.5 7a4.499 4.499 0 11-8.998 0A4.499 4.499 0 0111.5 7zm-.82 4.74a6 6 0 11.06-1.06l3.04 3.04a.75.75 0 11-1.06 1.06l-3.04-3.04z"></path> </svg> </div>

```
<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">
</div>

<div class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none js-jump-to-badge-search">
  <span class="js-jump-to-badge-search-text-default d-none" aria-label="in this repository">
    In this repository
  </span>
  <span class="js-jump-to-badge-search-text-global d-none" aria-label="in all of GitHub">
    All GitHub
  </span>
  <span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>
</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none d-on-nav-focus js-jump-to-badge-jump">
  Jump to
  <span class="d-inline-block ml-1 v-align-middle"></span>
</div>
```


<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-owner-scoped-search d-none" role="option"> <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none"> <svg title="Repository" aria-label="Repository" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-repo js-jump-to-octicon-repo d-none flex-shrink-0"> <path fill-rule="evenodd" d="M2 2.5A2.5 2.5 0 014.5 0h8.75a.75.75 0 01.75.75v12.5a.75.75 0 01-.75.75h-2.5a.75.75 0 110-1.5h1.75v-2h-8a1 1 0 00-.714 1.7.75.75 0 01-1.072 1.05A2.495 2.495 0 012 11.5v-9zm10.5-1V9h-8c-.356 0-.694.074-1.208V2.5a1 1 0 011-1h8zM5 12.25v3.25a.25.25 0 00.421.45-1.087a.25.25 0 01.3 0L8.6 15.7a.25.25 0 00.4-.2v-3.25a.25.25 0 00-.25-.25h-3.5a.25.25 0 00-.25.25z"></path> </svg> <svg title="Project" aria-label="Project" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-project js-jump-to-octicon-project d-none flex-shrink-0"> <path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 000 1.75v12.5C0 15.216.784 16 1.75 16h12.5A1.75 1.75 0 0016 14.25V1.75A1.75 1.75 0 0014.25 0H1.75zM1.5 1.75a.25.25 0 01.25-.25h12.5a.25.25 0 01.25.25v12.5a.25.25 0 01-.25.25H1.75a.25.25 0 01-.25-.25V1.75zM11.75 3a.75.75 0 00-.75.75v7.5a.75.75 0 001.5 0v-.75-.75zm-8.25.75a.75.75 0 011.5 0v5.5zM8 3a.75.75 0 00-.75.75v3.5a.75.75 0 001.5 0v-3.5A.75.75 0 008 3z"></path> </svg> <svg title="Search" aria-label="Search" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-search js-jump-to-octicon-search d-none flex-shrink-0"> <path fill-rule="evenodd" d="M11.5 7a4.499 4.499 0 11-8.998 0A4.499 4.499 0 0111.5 7zm-.82 4.74a6 6 0 11.06-1.06l3.04 3.04a.75.75 0 11-1.06 1.06l-3.04-3.04z"></path> </svg> </div>

```
<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">
</div>

<div class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none js-jump-to-badge-search">
  <span class="js-jump-to-badge-search-text-default d-none" aria-label="in this organization">
```

```

    In this organization
  </span>
  <span class="js-jump-to-badg-search-text-global d-none" aria-label="in all of GitHub">
    All GitHub
  </span>
  <span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>
</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none d-on-nav-focus js-jump-to-badg-jum
p">
  Jump to
  <span class="d-inline-block ml-1 v-align-middle"></span>
</div>

```



```

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-global-search d-none" role="option"> <a tabindex="-1" class="no-underline d-flex
flex-auto flex-items-center jump-to-suggestions-path js-jump-to-suggestion-path js-navigation-open p-2" href="" data-item-type="global_search"> <div class="jump-to-octicon js-jump-
to-octicon flex-shrink-0 mr-2 text-center d-none"> <svg title="Repository" aria-label="Repository" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-
component="true" class="octicon octicon-repo js-jump-to-octicon-repo d-none flex-shrink-0"> <path fill-rule="evenodd" d="M2 2.5A2.5 2.5 0 0 1 4.5 0h8.75a.75.75 0
0 1-.75v12.5a.75.75 0 0 1-.75h-2.5a.75.75 0 0 110-1.5h1.75v-2h-8a1 1 0 00-.714 1.7.75.75 0 0 1-.072 1.05A2.495 2.495 0 0 12 11.5v-9zm10.5-1V9h-8c-.356 0-.694.074-1
.208V2.5a1 1 0 0 11-.1h8zM5 12.25v3.25a.25.25 0 0 0 4.211.45-1.087a.25.25 0 0 1.3 0L8.6 15.7a.25.25 0 0 0 4-.2v-3.25a.25.25 0 0 0-.25-.25h-3.5a.25.25 0 0 0-.25.25z"></path> </svg>
<svg title="Project" aria-label="Project" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-project js-jump-to-
octicon-project d-none flex-shrink-0"> <path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 0 0 1.75v12.5C0 15.216.784 16 1.75 16h12.5A1.75 1.75 0 0 0 16 14.25V1.75A1.75 1.75 0
0 0 14.25 0H1.75zM1.5 1.75a.25.25 0 0 1.25-.25h12.5a.25.25 0 0 1.25.25v12.5a.25.25 0 0 1-.25.25H1.75a.25.25 0 0 1-.25-.25V1.75zM11.75 3a.75.75 0 0 0-.75.75v7.5a.75.75 0 0 0 1.5
0v-.75a.75.75 0 0 0-.75-.75zm-8.25.75a.75.75 0 0 11.5 0v5.5a.75.75 0 0 1-1.5 0v-5.5zM8 3a.75.75 0 0 0-.75.75v3.5a.75.75 0 0 0 1.5 0v-3.5A.75.75 0 0 0 8 3z"></path> </svg> <svg
title="Search" aria-label="Search" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-search js-jump-to-octicon-
search d-none flex-shrink-0"> <path fill-rule="evenodd" d="M11.5 7a4.499 4.499 0 1 1-8.998 0A4.499 4.499 0 1 111.5 7zm-.82 4.74a6 6 0 1 1.0613.04 3.04a.75.75 0 1 1-.06 1.061-
3.04-3.04z"></path> </svg> </div>

```

```

<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">
</div>

<div class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none js-jump-to-badg-search">
  <span class="js-jump-to-badg-search-text-default d-none" aria-label="in this repository">
    In this repository
  </span>
  <span class="js-jump-to-badg-search-text-global d-none" aria-label="in all of GitHub">
    All GitHub
  </span>
  <span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>
</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 color-bg-tertiary px-1 color-text-tertiary ml-1 f6 d-none d-on-nav-focus js-jump-to-badg-jum
p">
  Jump to
  <span class="d-inline-block ml-1 v-align-middle"></span>
</div>

```



```

  </div>
  <label>

```

</form> </div> </div>

```

  </div>

  <div class="position-relative mr-3 mb-4 mb-lg-0 d-inline-block">
    <a href="/login?return_to=https%3A%2F2Fgithub.com%2FClass-3E%2FNahamCon2021-Writeups%2Ftree%2Fmaster%2Fpwn%2FtheList"
      class="HeaderMenu-link flex-shrink-0 no-underline"
      data-hydro-click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_page&quot;:&quot;site header menu
&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;SIGN_UP&quot;,&quot;originating_url&quot;:&quot;https://github.com/Class-3E/NahamCon2021-
Writeups/tree/master/pwn/theList&quot;,&quot;user_id&quot;:null}}}" data-hydro-click-hmac="1a989d295b0c1e788d17c32c0198d50cc9eaeac4adc4c3011ec1e38d46591beb2"
      data-ga-click="(Logged out) Header, clicked Sign in, text:sign-in">
      Sign in
    </a>
  </div>

  <a href="/signup?ref_cta=Sign up&amp;ref_loc=header+logged+out&amp;ref_page=%2F%3Cuser-name%3E%2F%3Crepo-name%3E%2Ffiles%2Fdisambiguate&amp;source=
header-repo&amp;source_repo=Class-3E%2FNahamCon2021-Writeups"
    class="HeaderMenu-link flex-shrink-0 d-inline-block no-underline border color-border-default rounded px-2 py-1"
    data-hydro-click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_page&quot;:&quot;site header me
nu&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;SIGN_UP&quot;,&quot;originating_url&quot;:&quot;https://github.com/Class-3E/NahamCon202
1-Writeups/tree/master/pwn/theList&quot;,&quot;user_id&quot;:null}}}" data-hydro-click-hmac="1a989d295b0c1e788d17c32c0198d50cc9eaeac4adc4c3011ec1e38d46591beb
2"
    data-hydro-click="{&quot;event_type&quot;:&quot;analytics.event&quot;,&quot;payload&quot;:{&quot;category&quot;:&quot;Sign up&quot;,&quot;action&
quot;:&quot;click to sign up for account&quot;,&quot;label&quot;:&quot;ref_page:/&lt;user-name&gt;/&lt;repo-name&gt;/files/disambiguate;ref_cta:Sign up;ref
_loc:header logged out&quot;,&quot;originating_url&quot;:&quot;https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList&quot;,&quot;user_i
d&quot;:null}}}" data-hydro-click-hmac="1922d915c62aafb29f21f93d297920d05c122d3e246a2f83a8897fa266b6cfd8" data-analytics-event="{&quot;category&quot;:&quot;
Sign up&quot;,&quot;action&quot;:&quot;click to sign up for account&quot;,&quot;label&quot;:&quot;ref_page:/&lt;user-name&gt;/&lt;repo-name&gt;/files/disa
mbiguate;ref_cta:Sign up;ref_loc:header logged out&quot;}"
  >
    Sign up
  </a>

```



```

    </div>
  </div>

```

</div> </header>

```

    </div>

```

<div id="start-of-content" class="show-on-focus"></div>

```

    <div data-pjax-replace id="js-flash-container">

```

<template class="js-flash-template"> <div class="flash flash-full {{ className }}"> <div class=" px-2"> <button class="flash-close js-flash-close" type="button" aria-label="Dismiss this message"> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-x"> <path fill-rule="evenodd" d="M3.72 3.72a.75.75 0 011.06 1.06L8.6943.22a.75.75 0 111.06 1.06L9.0613.22a.75.75 0 11-1.06 1.06L8.6943.22a.75.75 0 01-1.06 1.06L6.94 8.3.72 4.78a.75.75 0 010-1.06z"></path> </svg> </button>

```

    <div>{{ message }}</div>

```

</div> </div> </template> </div>

<include-fragment class="js-notification-shelf-include-fragment" data-base-src="https://github.com/notifications/beta/shelf"></include-fragment>

<div class="application-main " data-commit-hovercards-enabled data-discussion-hovercards-enabled data-issue-and-pr-hovercards-enabled

```

    <div itemscope itemtype="http://schema.org/SoftwareSourceCode" class="">
    <main id="js-repo-pjax-container" data-pjax-container >

    <include-fragment src="/orgs/Class-3E/survey_banner" data-test-selector="survey-banner-selector">

```

</include-fragment>

<div id="repository-container-header" class="pt-3 hide-full-screen mb-5" style="background-color: var(--color-page-header-bg);" data-pjax-replace>

```

    <div class="d-flex mb-3 px-3 px-md-4 px-lg-5">

    <div class="flex-auto min-width-0 width-fit mr-3">
      <h1 class=" d-flex flex-wrap flex-items-center wb-break-word f3 text-normal">
        <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-repo color-icon-secondary mr-2">
        <path fill-rule="evenodd" d="M2 2.5A2.5 2.5 0 014.5 0h8.75a.75.75 0 01.75.75v12.5a.75.75 0 01-.75.75h-2.5a.75.75 0 10-1.5h1.75v-2h-8a1 1 0 00-.714 1.7.75.75 0 01-1.072 1.05A2.495 2.495 0 012 11.5v-9zm10.5-1V9h-8c-.356 -.694-.074-1 .208V2.5a1 1 0 011-1h8zM5 12.25v3.25a.25.25 0 00.4.211.45-1.087a.25.25 0 01.3 0L8.6 15.7a.25.25 0 00.4-.2v-3.25a.25.25 0 00-.25-.25h-3.5a.25.25 0 00-.25.25z"></path>

```

</svg> Class-3E <strong itemprop="name" class="mr-2 flex-self-stretch"> <a data-pjax="#js-repo-pjax-container" href="/Class-3E/NahamCon2021-Writeups">NahamCon2021-Writeups

Public </h1>

```

    </div>

    <ul class="pagehead-actions flex-shrink-0 d-md-inline" style="padding: 2px 0;">

```

 <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-bell"> <path d="M8 16a2 2 0 001.985-1.75c.017-.137-.097-.25-.235-.25h-3.5c-.138 0-.252.113-.235.25A2 2 0 008 16z"></path><path fill-rule="evenodd" d="M8 1.5A3.5 3.5 0 004.5 5v2.947c0 .346-.102.683-.294.971-1.703 2.556a.018.018 0 00-.003.011.001.006c0 .002.002.004.004.006a.017.017 0 00.006.0041.007.001h10.9641.007-.001a.016.016 0 00.006-.004.016.016 0 00.004-.0061.001-.007a.017.017 0 00-.003-.011-1.703-2.554a1.75 1.75 0 01-.294-.97V5A3.5 3.5 0 008 1.5zM3 5a5 5 0 0110 0v2.947c0 .05.015.098.042.13911.703 2.555A1.518 1.518 0 0113.482 13H2.518a1.518 1.518 0 01-1.263-2.3611.703-2.554A.25.25 0 003 7.947V5z"></path> </svg>

```

    Notifications

```



```

    <li>
      <div >
        <a href="/login?return_to=%2FClass-3E%2FNahamCon2021-Writeups" rel="nofollow" data-hydro-click="{\"event_type\":\"authentication.click\",\"payload\":{\"location_in_page\":\"notification subscription menu watch\",\"repository_id\":null,\"auth_type\":\"LOG_IN\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}\" data-hydro-click-hmac=\"a77a91796df2b2fa75c7179f586c3313d38cdfb36172c46ad85c7c1e6b31be\" aria-label=\"You must be signed in to star a repository\" role=\"button\" data-view-component=\"true\" class=\"tooltipped tooltipped-s btn-with-count btn-sm btn\">

```

<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-star v-align-text-bottom mr-1"> <path fill-rule="evenodd" d="M8 .25a.75.75 0 01.673 1.188.882 3.815 4.21612a.75.75 0 01.416 1.27913.046 2.97.719 4.192a.75.75 0 01-1.088.79118 12.3471-3.766 1.98a.75.75 0 01-

1.088-.79l.72-4.194L.818 6.374a.75.75 0 0 1.416-1.28l4.21-.611L7.327.668A.75.75 0 0 18 .25zm0 2.445L6.615 5.5a.75.75 0 0 1-.564.41l-3.097.45 2.24 2.184a.75.75 0 0 1.216.664l-.528 3.084 2.769-1.456a.75.75 0 0 1.698 0l2.77 1.456-.53-3.084a.75.75 0 0 1.216-.664l2.24-2.183-3.096-.45a.75.75 0 0 1-.564-.41l8 2.694v.001z"></path> </svg>

```
<span data-view-component="true">
  Star
</span>
```

 0 </div>

```
</li>

<li>
  <a href="/login?return_to=%2FClass-3E%2FNahamCon2021-Writeups" rel="nofollow" data-hydro-click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_page&quot;:&quot;repo_details fork button&quot;,&quot;repository_id&quot;:&quot;347462794,&quot;auth_type&quot;:&quot;LOG_IN&quot;,&quot;originating_url&quot;:&quot;https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList&quot;,&quot;user_id&quot;:null}}}" data-hydro-click-hmac="b447d29e21ec40077ddf14d686272e9eb2713bfdd4479ab03c7150058341b5b7" aria-label="You must be signed in to fork a repository" role="button" data-view-component="true" class="tooltipped tooltipped-s btn-with-count btn-sm btn">
    Fork
  </a>
</li>
```

<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-repo-forked"> <path fill-rule="evenodd" d="M5 3.25a.75.75 0 11-1.5 0 .75.75 0 0 11.5 0zm0 2.122a2.25 2.25 0 10-1.5 0v.878A2.25 2.25 0 005.75 8.5h1.5v2.128a2.251 2.251 0 101.5 0V8.5h1.5a2.25 2.25 0 002.25-2.25v-.878a2.25 2.25 0 10-1.5 0v.878a.75.75 0 01-.75.75h-4.5a.75.75 0 015 6.25v-.878zm3.75 7.378a.75.75 0 11-1.5 0 .75.75 0 0 11.5 0zm3-8.75a.75.75 0 100-1.5.75.75 0 000 1.5z"></path> </svg>

```
Fork
```



```
1
```



```
</li>
```



```
</div>

<div id="responsive-meta-container" data-pjax-replace>
```

</div>

<nav data-pjax="#js-repo-pjax-container" aria-label="Repository" data-view-component="true" class="js-repo-nav js-sidenav-container-pjax js-responsive-underlinenav overflow-hidden UnderlineNav px-3 px-md-4 px-lg-5">

<ul data-view-component="true" class="UnderlineNav-body list-style-none"> <li data-view-component="true" class="d-inline-flex">

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-code UnderlineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M4.72 3.22a.75.75 0 011.06 1.06L2.06 8l3.72 3.72a.75.75 0 11-1.06 1.06L.47 8.53a.75.75 0 010-1.06l4.25-4.25zm6.56 0a.75.75 0 1 0-1.06 1.06l13.94 8l-3.72 3.72a.75.75 0 011.06 1.06l4.25-4.25a.75.75 0 000-1.06l-4.25-4.25z"></path>
```

</svg> Code

 <li data-view-component="true" class="d-inline-flex">

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-issue-open UnderlineNav-octicon d-none d-sm-inline">
<path d="M8 9.5a1.5 1.5 0 100-3 1.5 1.5 0 00 3z"></path><path fill-rule="evenodd" d="M8 0a8 8 0 100 16A8 8 0 00 0zM1.5 8a6.5 6.5 0 113 0 6.5 6.5 0 01-13 0z"></path>
```

</svg> Issues 0

 <li data-view-component="true" class="d-inline-flex">

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-git-pull-request UnderlineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M7.177 3.073L9.573.677A.25.25 0 0110 .854v4.792a.25.25 0 01-.427.177L7.177 3.427a.25.25 0 010-.354zM3.75 2.5a.75.75 0 100 1.5.75.75 0 000-1.5zm-2.25.75a2.25 2.25 0 113 2.122v5.256a2.251 2.251 0 11-1.5 0V5.372A2.25 2.25 0 011.5 3.25zM11 2.5h-1v4h1a1 1 0 01 1v5.628a2.251 2.251 0 10 1.5 0V5A2.5 2.5 0 0011 2.5zm1 10.25a.75.75 0 111.5 0 .75.75 0 01-1.5 0zM3.75 12a.75.75 0 100 1.5.75.75 0 000-1.5z"></path>
```

</svg> Pull requests 1

 <li data-view-component="true" class="d-inline-flex">

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-play Under lineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M1.5 8a6.5 6.5 0 113 0 6.5 6.5 0 01-13 0z" data-bbox="0 0 16 16" data-view-component="true" class="octicon octicon-play Under lineNav-octicon d-none d-sm-inline">
21414.264-2.559a.25.25 0 00-.428L6.379 5.227z"></path>
```

```
</a></li> <li data-view-component="true" class= d-inline-flex"> <a id="projects-tab" href="/Class-3E/NahamCon2021-Writeups/projects" data-tab-item="4projects-tab" data-selected-links="repo_projects new_repo_project repo_project /Class-3E/NahamCon2021-Writeups/projects" data-hotkey="g b" data-ga-click="Repository, Navigation click, Projects tab" data-view-component="true" class="UnderlineNav-item hx_underlinenav-item no-wrap js-responsive-underlinenav-item js-selected-navigation-item">
```

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-project UnderscoreNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M1.75 0A1.75 1.75 0 00 1.75v12.5C0 15.216 7.84 16 16 16h12.5A1.75 1.75 0 00 14.25v12.5A1.75 1.75 0 00 12.5 16h-12.5A1.75 1.75 0 00 0 16v12.5A1.75 1.75 0 00 -1.75 16h-1.75v12.5A1.75 1.75 0 00 -3.5 16h-1.75v12.5A1.75 1.75 0 00 -5.25 16h-1.75v12.5A1.75 1.75 0 00 -7 16h-1.75v12.5A1.75 1.75 0 00 -8.75 16h-1.75v12.5A1.75 1.75 0 00 -10.5 16h-1.75v12.5A1.75 1.75 0 00 -12.25 16h-1.75v12.5A1.75 1.75 0 00 -14 16h-1.75v12.5A1.75 1.75 0 00 -15.75 16h-1.75v12.5A1.75 1.75 0 00 -17.5 16h-1.75v12.5A1.75 1.75 0 00 -19.25 16h-1.75v12.5A1.75 1.75 0 00 -21 16h-1.75v12.5A1.75 1.75 0 00 -22.75 16h-1.75v12.5A1.75 1.75 0 00 -24.5 16h-1.75v12.5A1.75 1.75 0 00 -26.25 16h-1.75v12.5A1.75 1.75 0 00 -28 16h-1.75v12.5A1.75 1.75 0 00 -29.75 16h-1.75v12.5A1.75 1.75 0 00 -31.5 16h-1.75v12.5A1.75 1.75 0 00 -33.25 16h-1.75v12.5A1.75 1.75 0 00 -35 16h-1.75v12.5A1.75 1.75 0 00 -36.75 16h-1.75v12.5A1.75 1.75 0 00 -38.5 16h-1.75v12.5A1.75 1.75 0 00 -40.25 16h-1.75v12.5A1.75 1.75 0 00 -42 16h-1.75v12.5A1.75 1.75 0 00 -43.75 16h-1.75v12.5A1.75 1.75 0 00 -45.5 16h-1.75v12.5A1.75 1.75 0 00 -47.25 16h-1.75v12.5A1.75 1.75 0 00 -49 16h-1.75v12.5A1.75 1.75 0 00 -50.75 16h-1.75v12.5A1.75 1.75 0 00 -52.5 16h-1.75v12.5A1.75 1.75 0 00 -54.25 16h-1.75v12.5A1.75 1.75 0 00 -56 16h-1.75v12.5A1.75 1.75 0 00 -57.75 16h-1.75v12.5A1.75 1.75 0 00 -59.5 16h-1.75v12.5A1.75 1.75 0 00 -61.25 16h-1.75v12.5A1.75 1.75 0 00 -63 16h-1.75v12.5A1.75 1.75 0 00 -64.75 16h-1.75v12.5A1.75 1.75 0 00 -66.5 16h-1.75v12.5A1.75 1.75 0 00 -68.25 16h-1.75v12.5A1.75 1.75 0 00 -70 16h-1.75v12.5A1.75 1.75 0 00 -71.75 16h-1.75v12.5A1.75 1.75 0 00 -73.5 16h-1.75v12.5A1.75 1.75 0 00 -75.25 16h-1.75v12.5A1.75 1.75 0 00 -77 16h-1.75v12.5A1.75 1.75 0 00 -78.75 16h-1.75v12.5A1.75 1.75 0 00 -80.5 16h-1.75v12.5A1.75 1.75 0 00 -82.25 16h-1.75v12.5A1.75 1.75 0 00 -84 16h-1.75v12.5A1.75 1.75 0 00 -85.75 16h-1.75v12.5A1.75 1.75 0 00 -87.5 16h-1.75v12.5A1.75 1.75 0 00 -89.25 16h-1.75v12.5A1.75 1.75 0 00 -91 16h-1.75v12.5A1.75 1.75 0 00 -92.75 16h-1.75v12.5A1.75 1.75 0 00 -94.5 16h-1.75v12.5A1.75 1.75 0 00 -96.25 16h-1.75v12.5A1.75 1.75 0 00 -98 16h-1.75v12.5A1.75 1.75 0 00 -99.75 16h-1.75v12.5A1.75 1.75 0 00 -101.5 16h-1.75v12.5A1.75 1.75 0 00 -103.25 16h-1.75v12.5A1.75 1.75 0 00 -105 16h-1.75v12.5A1.75 1.75 0 00 -106.75 16h-1.75v12.5A1.75 1.75 0 00 -108.5 16h-1.75v12.5A1.75 1.75 0 00 -110.25 16h-1.75v12.5A1.75 1.75 0 00 -112 16h-1.75v12.5A1.75 1.75 0 00 -113.75 16h-1.75v12.5A1.75 1.75 0 00 -115.5 16h-1.75v12.5A1.75 1.75 0 00 -117.25 16h-1.75v12.5A1.75 1.75 0 00 -119 16h-1.75v12.5A1.75 1.75 0 00 -120.75 16h-1.75v12.5A1.75 1.75 0 00 -122.5 16h-1.75v12.5A1.75 1.75 0 00 -124.25 16h-1.75v12.5A1.75 1.75 0 00 -126 16h-1.75v12.5A1.75 1.75 0 00 -127.75 16h-1.75v12.5A1.75 1.75 0 00 -129.5 16h-1.75v12.5A1.75 1.75 0 00 -131.25 16h-1.75v12.5A1.75 1.75 0 00 -133 16h-1.75v12.5A1.75 1.75 0 00 -134.75 16h-1.75v12.5A1.75 1.75 0 00 -136.5 16h-1.75v12.5A1.75 1.75 0 00 -138.25 16h-1.75v12.5A1.75 1.75 0 00 -140 16h-1.75v12.5A1.75 1.75 0 00 -141.75 16h-1.75v12.5A1.75 1.75 0 00 -143.5 16h-1.75v12.5A1.75 1.75 0 00 -145.25 16h-1.75v12.5A1.75 1.75 0 00 -147 16h-1.75v12.5A1.75 1.75 0 00 -148.75 16h-1.75v12.5A1.75 1.75 0 00 -150.5 16h-1.75v12.5A1.75 1.75 0 00 -152.25 16h-1.75v12.5A1.75 1.75 0 00 -154 16h-1.75v12.5A1.75 1.75 0 00 -155.75 16h-1.75v12.5A1.75 1.75 0 00 -157.5 16h-1.75v12.5A1.75 1.75 0 00 -159.25 16h-1.75v12.5A1.75 1.75 0 00 -161 16h-1.75v12.5A1.75 1.75 0 00 -162.75 16h-1.75v12.5A1.75 1.75 0 00 -164.5 16h-1.75v12.5A1.75 1.75 0 00 -166.25 16h-1.75v12.5A1.75 1.75 0 00 -168 16h-1.75v12.5A1.75 1.75 0 00 -169.75 16h-1.75v12.5A1.75 1.75 0 00 -171.5 16h-1.75v12.5A1.75 1.75 0 00 -173.25 16h-1.75v12.5A1.75 1.75 0 00 -175 16h-1.75v12.5A1.75 1.75 0 00 -176.75 16h-1.75v12.5A1.75 1.75 0 00 -178.5 16h-1.75v12.5A1.75 1.75 0 00 -180.25 16h-1.75v12.5A1.75 1.75 0 00 -182 16h-1.75v12.5A1.75 1.75 0 00 -183.75 16h-1.75v12.5A1.75 1.75 0 00 -185.5 16h-1.75v12.5A1.75 1.75 0 00 -187.25 16h-1.75v12.5A1.75 1.75 0 00 -189 16h-1.75v12.5A1.75 1.75 0 00 -190.75 16h-1.75v12.5A1.75 1.75 0 00 -192.5 16h-1.75v12.5A1.75 1.75 0 00 -194.25 16h-1.75v12.5A1.75 1.75 0 00 -196 16h-1.75v12.5A1.75 1.75 0 00 -197.7
```

```
</a></li> <li data-view-component="true" class="d-inline-flex"> <a id="wiki-tab" href="/Class-3E/NahamCon2021-Writeups/wiki" data-tab-item="5wiki-tab" data-selected-links="repo_wiki /Class-3E/NahamCon2021-Writeups/wiki" data-hotkey="g w" data-ga-click="Repository, Navigation click, Wikis tab" data-view-component="true" class="UnderlineNav-item hx_underlinenav-item no-wrap js-responsive-underlinenav-item js-selected-navigation-item">
```

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-book UnderlineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M0 1.75A.75.75 0 0 1.75 1.75 0 0 1.75 1h4.25c1.227 0 2.317.59 3.150A1.744 3.744 0 0 111.006 1h4.245a.75.75 0 0 1.75.75v10.5a.75.75 0 0 1-.75.75h-4.507a2.25 2.25 0 0-1.591.659l-.622.621a.75.75 0 0 1-.86 0l-.622-.621A2.25 2.25 0 0 1.258 13h.75a.75.75 0 0 1-.75-.75v1.75zm8.755 3a2.25 2.25 0 0 12.25-2.25H14.5v9h-3.757c-.71 0-1.4.201-1.992.572l-.004-.7.322zm-1.504 7.324l.004-.5.073-.002.253A2.25 2.25 0 0 1.503 2.5H1.5v9h3.757a3.75 3.75 0 0 11.994.574z"></path>
```

```
</a></li> <li data-view-component="true" class="d-inline-flex"> <a id="security-tab" href="/Class-3E/NahamCon2021-Writeups/security" data-tab-item="f6security-tab" data-selected-links="security overview alerts policy token_scanning code_scanning /Class-3E/NahamCon2021-Writeups/security" data-hotkey="g s" data-ga-click="Repository, Navigation click, Security tab" data-pjax="#repo-content-pjax-container" data-view-component="true" class="UnderlineNav-item hx_underlinenav-item no-wrap js-responsive-underlinenav-item js-selected-navigation-item">
```

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-shield Und
erlineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M47.467,133a1.75 1.75 0 011.066 0.152 1.68A1.75 1.75 0 0115 3.487V7c0 1.566-.32 3.182-1.303 4.682-.983 1.498-2.585 2.813-5.032
3.855a1.7 1.7 0 01-1.33 0c-2.447,1.042-4.049-2.357-5.032-3.855C1.32 10.182 1 8.566 1 7V3.48a1.75 1.75 0 011.217-1.667V15.25-1.68zm.61 1.429a.25.25 0 00-.153
01-5.25 1.68a.25.25 0 00-.174.238V7c0 1.358.275 2.666 1.057 3.86.784 1.194 2.121 2.34 4.366 3.297a.2.2 0 00.154 0c2.245-.956 3.582-2.104 4.366-3.298C13.225
9.666 13.5 8.36 13.5 7V3.48a.25.25 0 00-.174-.237V15.25-1.68zm9 10.5a1 1 0 11-2 0 1 1 0 012 0zm-.25-.575a.75.75 0 10-1.5 0v3a.75.75 0 011.5 0v-3z"/></path>
```

```
</a></li> <li data-view-component="true" class="d-inline-flex"> <a id="insights-tab" href="/Class-3E/NahamCon2021-Writeups/pulse" data-tab-item="i7insights-tab" data-selected-links="repo_graphs repo_contributors dependency_graph dependabot_updates pulse people community /Class-3E/NahamCon2021-Writeups/pulse" data-ga-click="Repository, Navigation click, Insights tab" data-view-component="true" class="UnderlineNav-item hx_underlinenav-item no-wrap js-responsive-underlinenav-item js-selected-navigation-item">
```

```
<svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-graph Unde
rlineNav-octicon d-none d-sm-inline">
<path fill-rule="evenodd" d="M1.5 1.75a.75.75 0 0-1.5 0v12.5c0 .414.336.75.75.75h14.5a.75.75 0 000-1.5H1.5V1.75zm14.28 2.53a.75.75 0 0-1.06-1.06L10 7.94
7.53 5.47a.75.75 0 0-1.06 0L3.22 8.72a.75.75 0 01.06 1.06L7 7.06L2.47a.75.75 0 01.06 0L5.25-.525z"></path>
```

```
</a></li> </ul> <div style="visibility:hidden;" data-view-component="true" class="UnderlineNav-actions js-responsive-underlinenav-overflow position-absolute pr-3 pr-md-4 pr-lg-5 right-0"> <details data-view-component="true" class="details-overlay details-reset position-relative"> <summary role="button" data-view-component="true"> <div class="UnderlineNav-item mr-0 border-0"> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-kebab-horizontal"> <path data-m8 9a1.5 0 100-3 1.5 0 0 0 3zm1.5 9a1.5 0 100-3 1.5 0 0 0 3zm13 0a1.5 0 100-3 1.5 0 0 0 3zm2" data-view-component="true" class="dropdown-menu dropdown-menu-sw">
```

```
<ul>
  <li data-menu-item="i0code-tab" hidden>
    <a role="menuitem" class="js-selected-navigation-item selected dropdown-item" aria-current="page" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags repo_branches repo_packages repo_deployments /Class-3E/NahamCon2021-Writeups" href="/Class-3E/NahamCon2021-Writeups">
      Code
    </a>
  </li>
</ul>
```

```
</a> </li> <li data-menu-item="i1issues-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_issues repo_labels repo_milestones /Class-3E/NahamCon2021-Writeups/issues" href="/Class-3E/NahamCon2021-Writeups/issues"> Issues </a> </li> <li data-menu-item="i2pull-requests-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_pulls checks /Class-3E/NahamCon2021-Writeups/pulls" href="/Class-3E/NahamCon2021-Writeups/pulls"> Pull requests </a> </li> <li data-menu-item="i3actions-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_actions /Class-3E/NahamCon2021-Writeups/actions" href="/Class-3E/NahamCon2021-Writeups/actions"> Actions </a> </li> <li data-menu-item="i4projects-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_projects new_repo_project repo_project /Class-3E/NahamCon2021-Writeups/projects" href="/Class-3E/NahamCon2021-Writeups/projects"> Projects </a> </li> <li data-menu-item="i5wiki-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_wiki /Class-3E/NahamCon2021-Writeups/wiki" href="/Class-3E/NahamCon2021-Writeups/wiki"> Wiki </a> </li> <li data-menu-item="i6security-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="security overview alerts policy token_scanning code_scanning /Class-3E/NahamCon2021-Writeups/security" href="/Class-3E/NahamCon2021-Writeups/security"> Security </a> </li> <li data-menu-item="i7insights-tab" hidden> <a role="menuitem" class="js-selected-navigation-item dropdown-item" data-selected-links="repo_graphs repo_contributors dependency_graph dependabot_updates pulse people community /Class-3E/NahamCon2021-Writeups/pulse" href="/Class-3E/NahamCon2021-Writeups/pulse"> Insights </a> </li> </ul>
```

```
</details-menu></div> </details></div> </nav> </div>

<div class="clearfix new-discussion-timeline container-xl px-3 px-md-4 px-lg-5"> <div id="repo-content-pjax-container" class="repository-content " >

<div> <div class="file-navigation mb-3 d-flex flex-items-start">

<div class="position-relative"> <details class="details-reset details-overlay mr-0 mb-0 " id="branch-select-menu"> <summary class="btn css-truncate" data-hotkey="w" title="Switch branches or tags"> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-git-branch"> <path fill-rule="evenodd" d="M11.75 2.5a.75.75 0 100 1.5.75.75 0 000-1.5zm-2.25.75a2.25 2.25 0 113.122V6A2.5 2.5 0 110 8.5H6a1 1 0 00-1 1v1.128a2.251 2.251 0 11-1.5 0V5.372a2.25 2.25 0 111.5 0v1.836A2.492 2.492 0 016 7h4a1 1 0 01-1v-.628A2.25 2.25 0 019.5 3.25zM4.25 12a.75.75 0 100 1.5.75.75 0 000-1.5zM3.5 3.25a.75.75 0 111.5 0 .75.75 0 01-1.5 0z"> </path> </svg> <span class="css-truncate-target" data-menu-button>master</span> <span class="dropdown-caret"></span> </summary>

<div class="SelectMenu"> <div class="SelectMenu-modal"> <header class="SelectMenu-header"> <span class="SelectMenu-title">Switch branches/tags</span> <button class="SelectMenu-closeButton" type="button" data-toggle-for="branch-select-menu"><svg aria-label="Close menu" aria-hidden="false" role="img" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-x"> <path fill-rule="evenodd" d="M3.72 3.72a.75.75 0 110.6 0L8 6.943.22-3.22a.75.75 0 110.6 1.06L9.06 3.22a.75.75 0 11-1.06 1.06L6.94 8 3.72 4.78a.75.75 0 10-1.06z"></path> </svg></button> </header>

<input-demux data-action="tab-container-change:input-demux#storeInput tab-container-changed:input-demux#updateInput">
  <tab-container class="d-flex flex-column js-branches-tags-tabs" style="min-height: 0;">
    <div class="SelectMenu-filter">
      <input data-target="input-demux.source"
        id="context-commitish-filter-field"
        class="SelectMenu-input form-control"
        aria-owns="ref-list-branches"
        data-controls-ref-menu-id="ref-list-branches"
        autofocus
        autocomplete="off"
        aria-label="Filter branches/tags"
        placeholder="Filter branches/tags"
        type="text"
      >
    </div>

    <div class="SelectMenu-tabs" role="tablist" data-target="input-demux.control">
      <button class="SelectMenu-tab" type="button" role="tab" aria-selected="true">Branches</button>
      <button class="SelectMenu-tab" type="button" role="tab">Tags</button>
    </div>

    <div role="tabpanel" id="ref-list-branches" data-filter-placeholder="Filter branches/tags" class="d-flex flex-column flex-auto overflow-auto" tabindex="">
      <ref-selector
        type="branch"
        data-targets="input-demux.sinks"
        data-action="
          input-entered:ref-selector#inputEntered
          tab-selected:ref-selector#tabSelected
          focus-list:ref-selector#focusFirstListItem
        "
        query-endpoint="/Class-3E/NahamCon2021-Writeups/refs"

        cache-key="v0:1615752712.2951722"
        current-committish="bWFzdGVy"
        default-branch="bWFzdGVy"
        name-with-owner="Q2xhc3MtM0UvTmFoYW1Db24yMDIxLVdyaXRldXBz"
        prefetch-on-mouseover
      >

      <template data-target="ref-selector.fetchFailedTemplate">
        <div class="SelectMenu-message" data-index="{{ index }}">Could not load branches</div>
      </template>

      <template data-target="ref-selector.noMatchTemplate">
        <div class="SelectMenu-message">Nothing to show</div>
      </template>

      <!-- TODO: this max-height is necessary or else the branch list won't scroll. why? -->
      <div data-target="ref-selector.listContainer" role="menu" class="SelectMenu-list" style="max-height: 330px" data-pjax="#repo-content-pjax-container">
        <div class="SelectMenu-loading pt-3 pb-0" aria-label="Menu is loading">
          <svg style="box-sizing: content-box; color: var(--color-icon-primary);" width="32" height="32" viewBox="0 0 16 16" fill="none" data-view-component="true" class="anim-rotate">

<circle cx="8" cy="8" r="7" stroke="currentColor" stroke-opacity="0.25" stroke-width="2" vector-effect="non-scaling-stroke" /> <path d="M15 8a7.002 7.002 0 00-7-7" stroke="currentColor" stroke-width="2" stroke-linecap="round" vector-effect="non-scaling-stroke" /> </svg> </div> </div>

      <template data-target="ref-selector.itemTemplate">

<a href="https://github.com/Class-3E/NahamCon2021-Writeups/tree/{{ urlEncodedRefName }}/pwn/theList" class="SelectMenu-item" role="menuitemradio" rel="nofollow" aria-checked="{{ isCurrent }}" data-index="{{ index }}"> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-check SelectMenu-icon SelectMenu-icon-check"> <path fill-rule="evenodd" d="M13.78 4.22a.75.75 0 010 1.06l-7.25 7.25a.75.75 0 01-1.06 0L2.22 9.28a.75.75 0 011.06-1.06L6 10.94l6.72-6.72a.75.75 0 011.06 0z"></path> </svg> <span class="flex-1 css-truncate css-truncate-overflow {{ isFilteringClass }}">{{ refName }}</span> <span hidden="{{ isNotDefault }}" class="Label Label-secondary flex-self-start">default</span> </a> </template>

      <footer class="SelectMenu-footer"><a href="/Class-3E/NahamCon2021-Writeups/branches">View all branches</a></footer>
    </ref-selector>
  </div>
```


Failed to load latest commit information.

</div> <div class="js-details-container Details"> <div role="grid" aria-labelledby="files" class="Details-content--hidden-not-important js-navigation-container js-active-navigation-container d-block" data-pjax> <div class="sr-only" role="row"> <div role="columnheader">Type</div> <div role="columnheader">Name</div> <div role="columnheader" class="d-none d-md-block">Latest commit message</div> <div role="columnheader">Commit time</div> </div> <div role="row" class="Box-row Box-row--focus-gray p-0 d-flex js-navigation-item" > <div role="rowheader" class="flex-auto min-width-0 col-md-2"> . </div> <div role="gridcell" class="d-none d-md-block"></div> <div role="gridcell"></div> </div>

<div role="row" class="Box-row Box-row--focus-gray py-2 d-flex position-relative js-navigation-item "> <div role="gridcell" class="mr-3 flex-shrink-0" style="width: 16px;"> <svg aria-label="File" aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-file color-icon-tertiary"> <path fill-rule="evenodd" d="M3.75 1.5a.25.25 0 00-.25.25v11.5c0 .138.112.25.25.25h8.5a.25.25 0 00.25-.25V6H9.75A1.75 1.75 0 018 4.25V1.5H3.75zm5.75.56v2.19c0 .138.112.25.25.25h2.19L9.5 2.06zM2 1.75C2 .784 2.784 0 3.75 0h5.086c.464 0 .909.184 1.237.513l3.414 3.414c.329.328.513.773.513 1.237v8.086A1.75 1.75 0 0112.25 15h-8.5A1.75 1.75 0 012 13.25V1.75z"></path>

</svg> </div>

<div role="rowheader" class="flex-auto min-width-0 col-md-2 mr-3"> solve.py </div> <div role="gridcell" class="flex-auto min-width-0 d-none d-md-block col-5 mr-3" > <div class="Skeleton Skeleton--text col-7"> </div> </div> <div role="gridcell" class="color-fg-muted text-right" style="width:100px;"> <div class="Skeleton Skeleton--text"> </div> </div> </div> <div role="row" class="Box-row Box-row--focus-gray py-2 d-flex position-relative js-navigation-item "> <div role="gridcell" class="mr-3 flex-shrink-0" style="width: 16px;"> <svg aria-label="File" aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-file color-icon-tertiary"> <path fill-rule="evenodd" d="M3.75 1.5a.25.25 0 00-.25.25v11.5c0 .138.112.25.25.25h8.5a.25.25 0 00.25-.25V6H9.75A1.75 1.75 0 018 4.25V1.5H3.75zm5.75.56v2.19c0 .138.112.25.25.25h2.19L9.5 2.06zM2 1.75C2 .784 2.784 0 3.75 0h5.086c.464 0 .909.184 1.237.513l3.414 3.414c.329.328.513.773.513 1.237v8.086A1.75 1.75 0 0112.25 15h-8.5A1.75 1.75 0 012 13.25V1.75z"></path>

</svg> </div>

<div role="rowheader" class="flex-auto min-width-0 col-md-2 mr-3"> the_list </div> <div role="gridcell" class="flex-auto min-width-0 d-none d-md-block col-5 mr-3" > <div class="Skeleton Skeleton--text col-7"> </div> </div> <div role="gridcell" class="color-fg-muted text-right" style="width:100px;"> <div class="Skeleton Skeleton--text"> </div> </div> </div> </div>

</div>

</include-fragment>

</div>

</div>

</div> </div>

</main>

</div>

</div>

<div class="footer container-xl width-full p-responsive" role="contentinfo"> <div class="position-relative d-flex flex-row-reverse flex-lg-row flex-wrap flex-lg-nowrap flex-justify-center flex-lg-justify-between pt-6 pb-2 mt-6 f6 color-fg-muted border-top color-border-muted "> <ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-0"> <li class="mr-3 mr-lg-0">© 2021 GitHub, Inc. <li class="mr-3 mr-lg-0">Terms <li class="mr-3 mr-lg-0">Privacy <li class="mr-3 mr-lg-0"><a data-hydro-click="{"event_type":"analytics.event","payload":{"category":"Footer","action":"go to security","label":"text:security","originating_url":"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList","user_id":null}}" data-hydro-click-hmac="ac1049c9b136cf7f623a5780fb254e10cbfb53eefa5da2d8a0a024c3ad06108c" data-analytics-event="{"category":"Footer","action":"go to security","label":"text:security"}" href="https://github.com/security">Security <li class="mr-3 mr-lg-0">Status <a data-ga-click="Footer, go to help, text:Docs" href="https://docs.github.com">Docs

```
<a aria-label="Homepage" title="GitHub" class="footer-octicon d-none d-lg-block mx-lg-4" href="https://github.com">
  <svg aria-hidden="true" height="24" viewBox="0 0 16 16" version="1.1" width="24" data-view-component="true" class="octicon octicon-mark-github">
    <path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59.47.55.17.55-.17.55-.38 0-.19-.01-.82-.01-1.49-2.01-3.7-2.53-.49-2.69-.09-.23
    -.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53.63-.01 1.08.58 1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-
    2.15-.08-.2-.36-1.02.08-2.12 0 0 .67-.21 2.2.82.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08 2.12.51.56.82 1.27.82
    2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21.15.46.55.38A8.013 8.013 0 0016 8c0-4.42-3.58-8-8-8z"></path>
```

```
</svg> </a> <ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-0"> <li class="mr-3 mr-lg-0"><a
href="https://support.github.com?tags=dotcom-footer" data-hydro-click="{\"event_type\":\"analytics.event\",\"payload\":{\"category\":\"Footer\",\"action\":\"go to
contact\",\"label\":\"text:contact\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}" data-hydro-click-
hmac="efe91d91edad794d12313c50deae016def78ed574da8a12c7046f985adc08f62" data-analytics-event="{\"category\":\"Footer\",\"action\":\"go to
contact\",\"label\":\"text:contact\"}">Contact GitHub<a></li> <li class="mr-3 mr-lg-0"><a href="https://github.com/pricing" data-hydro-click="{\"event_type\":\"analytics.event\",\"payload\":{\"category\":\"Footer\",\"action\":\"go to Pricing\",\"label\":\"text:Pricing\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}" data-
hydro-click-hmac="9209745431dfc663e909caaecffeb7e7053c8a67674c472e1cafc0574329c566" data-analytics-event="{\"category\":\"Footer\",\"action\":\"go to
Pricing\",\"label\":\"text:Pricing\"}">Pricing<a></li> <li class="mr-3 mr-lg-0"><a href="https://docs.github.com" data-hydro-click="{\"event_type\":\"analytics.event\",\"payload\":{\"category\":\"Footer\",\"action\":\"go to api\",\"label\":\"text:api\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}" data-hydro-
click-hmac="86d062e91a688e6a22578c0efb7902042577489ac6be23c940a8d6ae1ced96ce" data-analytics-event="{\"category\":\"Footer\",\"action\":\"go to api\",\"label\":\"text:api\"}">API<a>
</li> <li class="mr-3 mr-lg-0"><a href="https://services.github.com" data-hydro-click="{\"event_type\":\"analytics.event\",\"payload\":{\"category\":\"Footer\",\"action\":\"go to
training\",\"label\":\"text:training\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}" data-hydro-click-
hmac="306e28ed5b34242f1fdee3162963fa7e9c4fea8679f7392589a401733f1c83ad" data-analytics-event="{\"category\":\"Footer\",\"action\":\"go to
training\",\"label\":\"text:training\"}">Training<a></li> <li class="mr-3 mr-lg-0"><a href="https://github.blog" data-hydro-click="{\"event_type\":\"analytics.event\",\"payload\":{\"category\":\"Footer\",\"action\":\"go to blog\",\"label\":\"text:blog\",\"originating_url\":\"https://github.com/Class-3E/NahamCon2021-Writeups/tree/master/pwn/theList\",\"user_id\":null}}" data-
hydro-click-hmac="000ae2986fe806e845f7e5092ded68e86d9478b60a097d09495be174f757c418" data-analytics-event="{\"category\":\"Footer\",\"action\":\"go to
blog\",\"label\":\"text:blog\"}">Blog<a></li> <li><a data-ga-click="Footer, go to about, text:about" href="https://github.com/about">About<a></li> </ul> </div> <div class="d-flex flex-justify-
center pb-6"> <span class="f6 color-fg-muted"></span> </div> </div>
```

```
<div id="ajax-error-message" class="ajax-error-message flash flash-error" hidden> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-
component="true" class="octicon octicon-alert"> <path fill-rule="evenodd" d="M8.22 1.754a.25.25 0 00-.44 0L1.698 13.132a.25.25 0 00.22.368h12.164a.25.25 0 00.22-.368L8.22
1.754zm-1.763-.707c.659-1.234 2.427-1.234 3.086 0l6.082 11.378A1.75 1.75 0 0114.082 15H1.918a1.75 1.75 0 01-1.543-2.575L6.457 1.047zM9 11a1 1 0 11-2 0 1 1 0 112 0zm-.25-
5.25a.75.75 0 00-1.5 0v2.5a.75.75 0 001.5 0v-.25z"></path> </svg> <button type="button" class="flash-close js-ajax-error-dismiss" aria-label="Dismiss error"> <svg aria-hidden="true"
height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true" class="octicon octicon-x"> <path fill-rule="evenodd" d="M3.72 3.72a.75.75 0 011.06 0L8
6.94l3.22-3.22a.75.75 0 11.06 1.06L9.06l3.22 3.22a.75.75 0 11-1.06 1.06L8 9.06l-3.22 3.22a.75.75 0 01-1.06-1.06z"></path> </svg> </button>
You can't perform that action at this time. </div>
```

```
<div class="js-stale-session-flash flash flash-warn flash-banner" hidden> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-
component="true" class="octicon octicon-alert"> <path fill-rule="evenodd" d="M8.22 1.754a.25.25 0 00-.44 0L1.698 13.132a.25.25 0 00.22.368h12.164a.25.25 0 00.22-.368L8.22
1.754zm-1.763-.707c.659-1.234 2.427-1.234 3.086 0l6.082 11.378A1.75 1.75 0 0114.082 15H1.918a1.75 1.75 0 01-1.543-2.575L6.457 1.047zM9 11a1 1 0 11-2 0 1 1 0 112 0zm-.25-
5.25a.75.75 0 00-1.5 0v2.5a.75.75 0 001.5 0v-.25z"></path> </svg> <span class="js-stale-session-flash-signed-in" hidden>You signed in with another tab or window. <a
href="">Reload<a> to refresh your session.</span> <span class="js-stale-session-flash-signed-out" hidden>You signed out in another tab or window. <a href="">Reload<a> to
refresh your session.</span> </div> <template id="site-details-dialog"> <details class="details-reset details-overlay details-overlay-dark lh-default color-fg-default hx_rsm" open>
<summary role="button" aria-label="Close dialog"></summary> <details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast hx_rsm-dialog hx_rsm-modal"> <button
class="Box-btn-octicon m-0 btn-octicon position-absolute right-0 top-0" type="button" aria-label="Close dialog" data-close-dialog> <svg aria-hidden="true" height="16" viewBox="0 0 16
16" version="1.1" width="16" data-view-component="true" class="octicon octicon-x"> <path fill-rule="evenodd" d="M3.72 3.72a.75.75 0 011.06 0L8 6.94l3.22-3.22a.75.75 0 11.06 1.06L9.06l3.22
3.22a.75.75 0 11-1.06 1.06L8 9.06l-3.22 3.22a.75.75 0 01-1.06-1.06L6.94 8 3.72 4.78a.75.75 0 010-1.06z"></path> </svg> </button> <div class="octocat-spinner my-6
js-details-dialog-spinner"></div> </details-dialog> </details> </template>
```

```
<div class="Popover js-hovercard-content position-absolute" style="display: none; outline: none;" tabindex="0">
```

```
<div class="Popover-message Popover-message--bottom-left Popover-message--large Box color-shadow-large" style="width:360px;"> </div> </div>
```

```
<template id="snippet-clipboard-copy-button">
```

```
<div class="zeroclipboard-container position-absolute right-0 top-0"> <clipboard-copy aria-label="Copy" class="ClipboardButton btn js-clipboard-copy m-2 p-0 tooltipped-no-delay"
data-copy-feedback="Copied!" data-tooltip-direction="w"> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true"
class="octicon octicon-copy js-clipboard-copy-icon m-2"> <path fill-rule="evenodd" d="M0 6.75C0 5.784.784 5 1.75 5h1.5a.75.75 0 010 1.5h-1.5a.25.25 0 00-.25.25v7.5c0
.138.112.25.25h7.5a.25.25 0 00.25-.25v-1.5a.75.75 0 011.5 0v1.5A1.75 1.75 0 019.25 16h-7.5A1.75 1.75 0 010 14.25v-7.5z"></path><path fill-rule="evenodd" d="M5 1.75C5 .784
5.784 0 6.75 0h7.5c15.216 0 16 .784 16 1.75v7.5A1.75 1.75 0 0114.25 11h-7.5A1.75 1.75 0 015 9.25v-7.5zm1.75-.25a.25.25 0 00-.25.25v7.5c0 .138.112.25.25h7.5a.25.25 0
00.25-.25v-7.5a.25.25 0 00-.25-.25h-7.5z"></path> </svg> <svg aria-hidden="true" height="16" viewBox="0 0 16 16" version="1.1" width="16" data-view-component="true"
class="octicon octicon-check js-clipboard-check-icon color-text-success d-none m-2"> <path fill-rule="evenodd" d="M13.78 4.22a.75.75 0 010 1.06l-7.25 7.25a.75.75 0 01-1.06 0L2.22
9.28a.75.75 0 010.06-1.06L6 10.94l6.72-6.72a.75.75 0 011.06 0z"></path> </svg> </clipboard-copy> </div> </template>
```

```
</body> </html>
```

[Original writeup](https://github.com/Class-3E/NahamCon2021-Writeups/blob/master/pwn/theList/solve.py) (https://github.com/Class-3E/NahamCon2021-Writeups/blob/master/pwn/theList/solve.py).

Comments