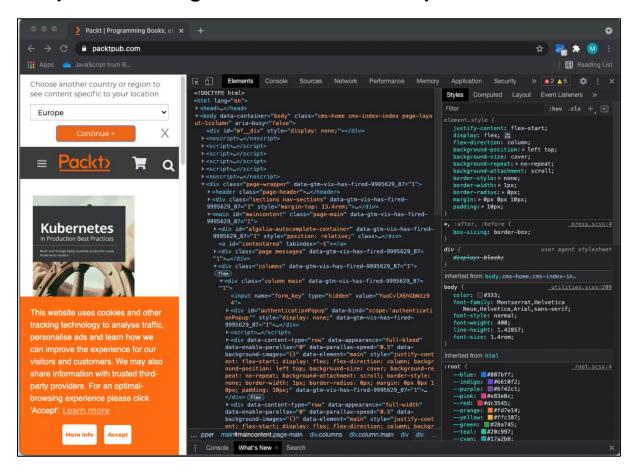
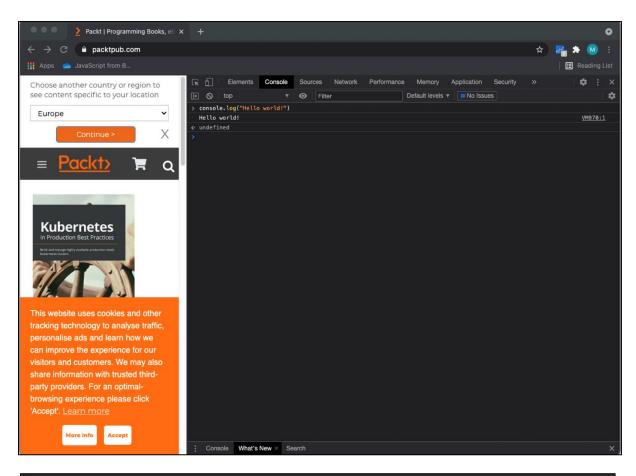
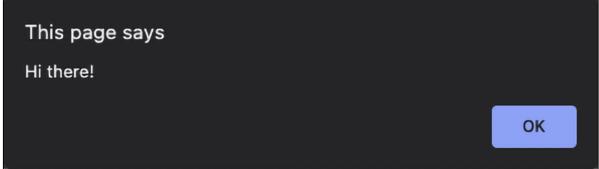
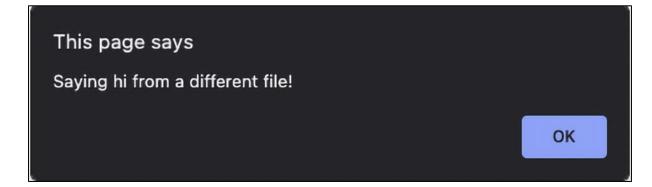
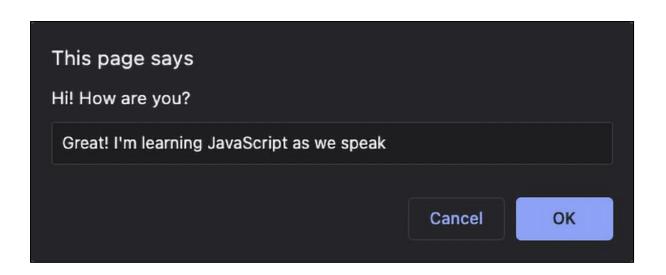
#### **Chapter 1: Getting Started with JavaScript**



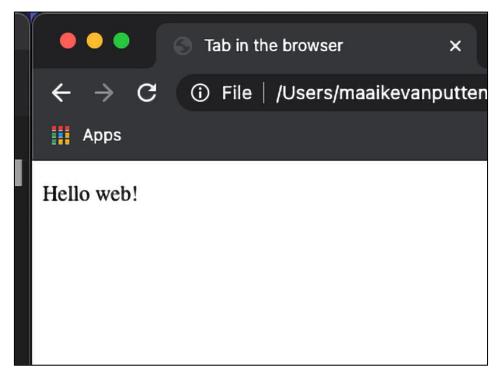








#### **Chapter 9: The Document Object Model**

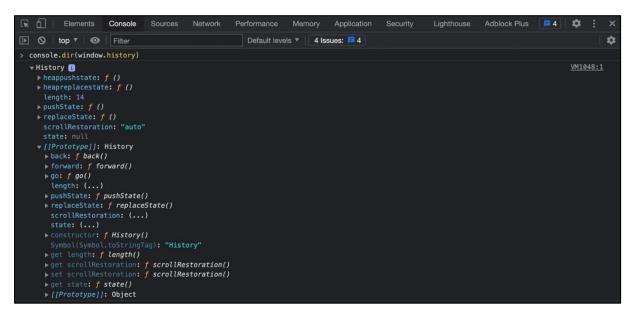


```
3 5 ▲ 15 🔯 🗜 🗙
       Elements
<!DOCTYPE html>
                                                                                           Styles Computed Layout »
<html lang="en">
▼<body data-container="body" class="cms-home cms-index-index page-layout-1column"
                                                                                          .columns .column.main {
  ▶ <noscript>...</noscript>
                                                                                                                        rem.scss:73
  ▶ <script>...</script>
                                                                                            padding-bottom: 0;
margin-top: 0;
  ><script>...</script>
                                                                                          @media (min-width: 768px)
                                                                                          .columns .column.main { header.scss:293
  "**div class="page-wrapper" data-gtm-vis-has-fired-9995629_87="1"> flex

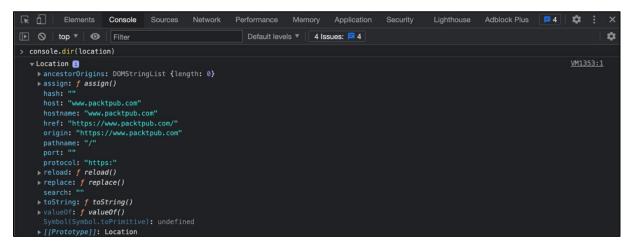
> *div class="page-header">_</header>

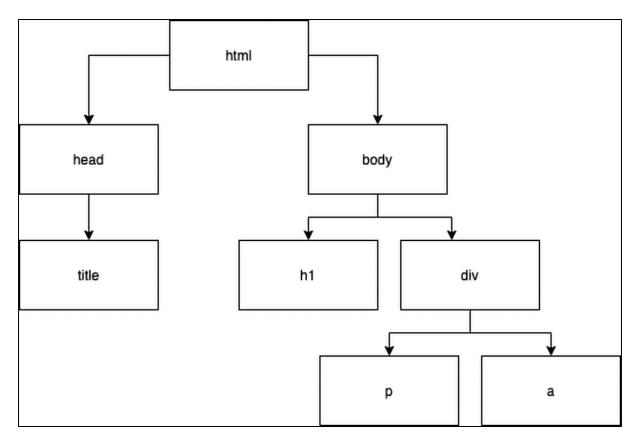
> <div class="sections nav-sections" data-gtm-vis-has-fired-9995629_87="1" style=
"margin-top: 13.4rem;">_</div>
                                                                                            margin top: 0;
                                                                                          .columns .column.main {
                                                                                                                        _rem.scss:73
    margin top: 5rem;
                                                                                          width: 100%;
       ▶<div class="column main" data-gtm-vis-has-fired-9995629_87="1">...</div> == $0
```

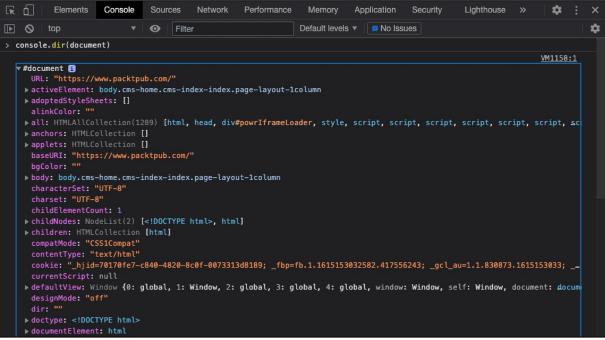
```
Elements Console Sources Network Performance Memory Application Security
                                                                                                                                                    Lighthouse >>
                                                                                                                                                                                  ‡ : ×
                                                                                                                                                                                               *
Default levels ▼ □ No Issues
> console.dir(window)
                                                                                                                                                                              VM1228:1
     > 0: global {window: global, self: global, location: {_}, closed: false, frames: global, ...}
> 1: Window {0: Window, window: Window, self: Window, document: document, name: "", location
> 2: global {window: global, self: global, location: {_}, closed: false, frames: global, ...}
> 3: global {window: global, self: global, location: {_}, closed: false, frames: global, ...}
> 4: global {window: global, self: global, location: {_}, closed: false, frames: global, ...}
                                                                                                                              ", location: Location, _}
       ▶ AlgoliaBase64: {_keyStr: "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=", encode: f, decode: f, mage_
         BASE_URL: "https://www.packtpub.com/"
BlockContentDetail: "<p style=&quot;text-align: center;&quot;&gt;&l Show more (127 kB) Copy
         ChromePaymentMode: "direct"
        ChromepayEnabled: "0"
       \blacktriangleright DataLayer: {events: {...}, shared: {...}, geo: {...}, consent: {...}, loaded: f, ...}
       ▶ GooglebQhCsO: {}
      ▶ GooglemKTybQhCsO: f Dd(a,b,c)
       HeapUserId: ""
      > JSON3: {noConflict: f, stringify: f, parse: f, runInContext: f}
JsMutationObserver: f JsMutationObserver(callback)
      MaxMiniCartItemsDisplay: "10" \blacktriangleright NREUM: {loader_config: {_}, o: {_}}, setPageViewName: f, setCustomAttribute: f, setErrorHandler: f, _}
       ▶ POWR_RECEIVERS: (3) [{...}, {...}, {...}]
      ▶ alert: f alert()
```



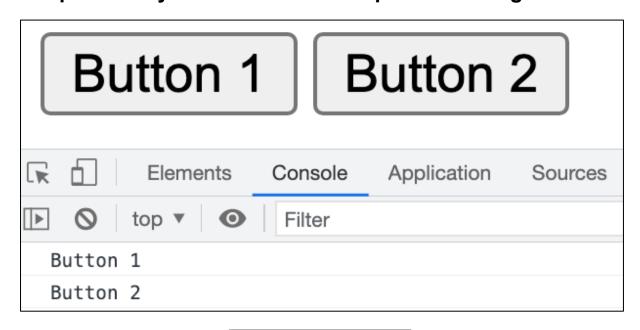
```
Elements Console Sources Network Performance Memory Application Security
                                                                                                           Lighthouse >>
                                                                                                                               ‡ :
I ♦ top
                            ▼ ⊚ Filter
                                                                   Default levels ▼ □ No Issues
> console.dir(navigator)
                                                                                                                               VM1305:1
  ▼Navigator 🗓
     appCodeName: "Mozilla"
      appName: "Netscape
      appVersion: "5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.85 Safari/537...
    ▶ bluetooth: Bluetooth {}
    ▶ clipboard: Clipboard {}
    ▶ connection: NetworkInformation {onchange: null, effectiveType: "4g", rtt: 50, downlink: 8, saveData: false}
    ▶ geolocation: Geolocation {}
      language: "en-GB"
     maxTouchPoints: 0
    ▶ mediaDevices: MediaDevices {ondevicechange: null}
    ▶ mediaSession: MediaSession {metadata: null, playbackState: "none"}
    ▶ mimeTypes: MimeTypeArray {0: MimeType, 1: MimeType, 2: MimeType, 3: MimeType, application/pdf: MimeType, application/x-goo…
     onLine: true
    ▶ permissions: Permissions {}
     platform: "MacIntel"
    plugins: PluginArray {0: Plugin, 1: Plugin, 2: Plugin, Chrome PDF Plugin: Plugin, Chrome PDF Viewer: Plugin, Native Client...
    ▶ presentation: Presentation {defaultRequest: null, receiver: null}
     productSub: "20030107"
    ▶ scheduling: Scheduling {}
    ▶ serial: Serial {onconnect: null, ondisconnect: null}
    ▶ serviceWorker: ServiceWorkerContainer {controller: null, ready: Promise, oncontrollerchange: null, onmessage: null, onmess...
    ▶ userActivation: UserActivation {hasBeenActive: true, isActive: true}
userAgent: "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.85 Saf...
    ▶ userAgentData: NavigatorUAData {brands: Array(3), mobile: false}
     vendor: "Google Inc."
vendorSub: ""
    ▶ webkitPersistentStorage: DeprecatedStorageQuota {}
    ▶ webkitTemporaryStorage: DeprecatedStorageQuota {}
▶ xr: XRSystem {ondevicechange: null}
    ▶ __proto__: Navigator
```

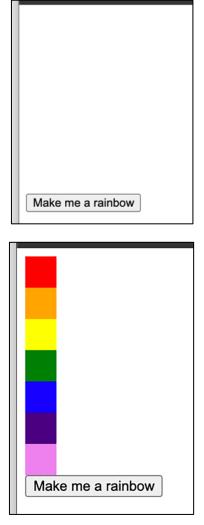


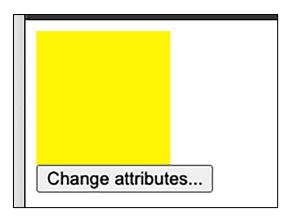


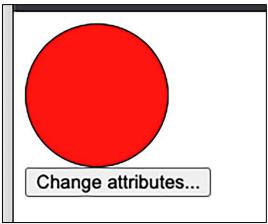


**Chapter 10: Dynamic Element Manipulation Using the DOM** 









# **My Friends Table**

Laurence 1

Mike 2

John 3

Larry 4

Kim 5

Joanne 6

Lisa 7

Janet 8

Jane 9

Maaike Add Friend

1 Laurence 4
2 Mike 6
3 John 1
4 Larry 1
5 Maaike 4

### **Chapter 11: Interactive Content and Event Listeners**

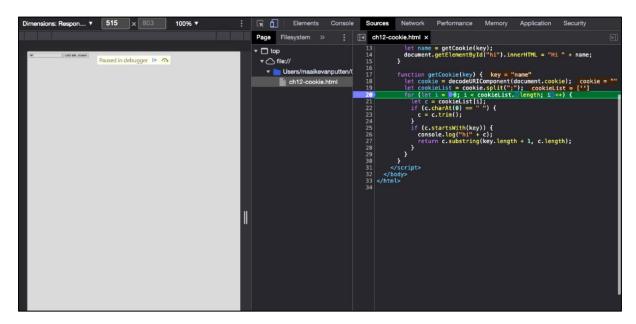
Hi there! First name	Last name	Submit
Welcome Maaike van P Maaike	utten van Putten	Submit

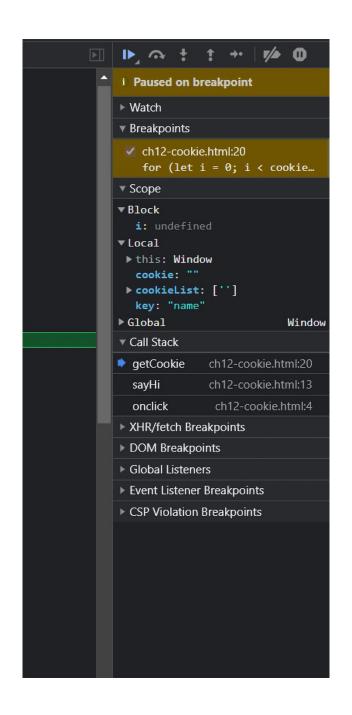
Bubbling	events	
1		
2		
] 3		
4		
5		



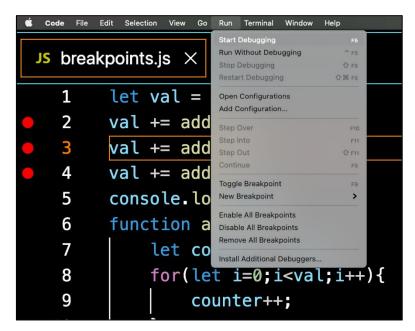
You Rated this 3 stars

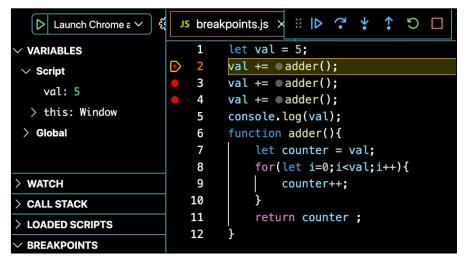
#### **Chapter 12: Intermediate JavaScript**





```
let val = 5;
     val += adder();
 2
 3
     val += adder();
     val += adder();
 4
      console.log(val);
 5
     function adder(){
 6
 7
          let counter = val;
          for(let i=0;i<val;i++){</pre>
 8
 9
               counter++;
10
11
          return counter;
12
```





```
Js breakpoints.js ×
       let val = 5;
  2
       val += @adder();
       val += ○adder();
       val += @adder();
  4
  5
       console.log(val);
       function adder(){
  6
  7
          let counter = val;
  8
           for(let i=0;i<val;i++){</pre>
  9
              counter++;
 10
 11
           return counter;
 12
```

```
D ? +
                                  5 

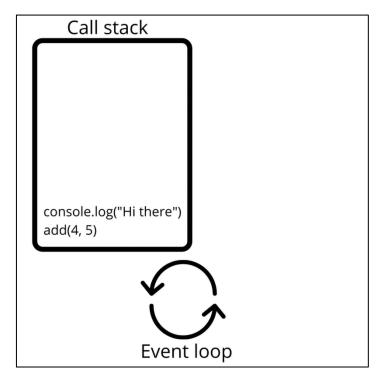
JS breakpoints.js ×
       let val = 5;
  2
       val += @adder();
       val += @adder();
  4
       val += oadder();
       console.log(val);
  5
  6
       function adder(){
  7
           let counter = val;
  8
           for(let i=0;i<val;i++){</pre>
  9
               counter++;
 10
 11
           return counter;
```

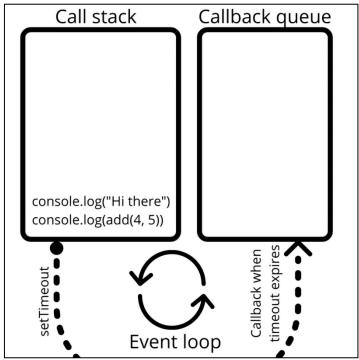
```
D Launch Chrome a ∨
                          Js breakpoints.js X
                                  let val = 5;

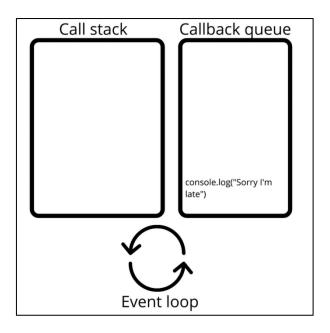
∨ VARIABLES

                             2
                                  val += adder();
                             3
                                  val += adder();
                                  val += adder();
                             5
                                  console.log(val);
                                  function adder(){
                             6
                             7
                                       let counter = val;
                             8
                                       for(let i=0;i<val;i++){</pre>
> WATCH
                             9
                                           counter++;
                            10
> CALL STACK
                            11
                                       return counter;
 BREAKPOINTS
                            12
   Caught Exceptions
```

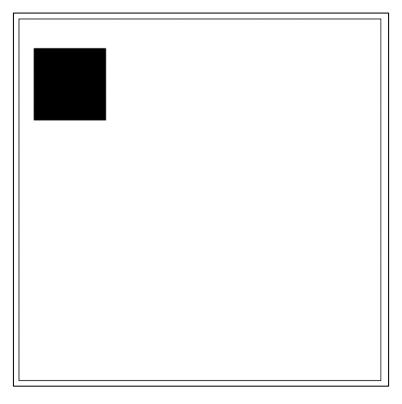
#### **Chapter 13: Concurrency**

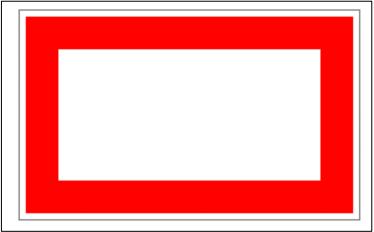


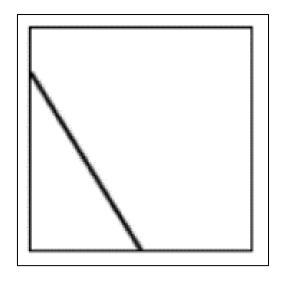


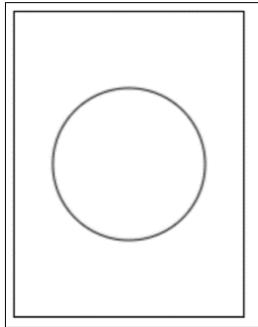


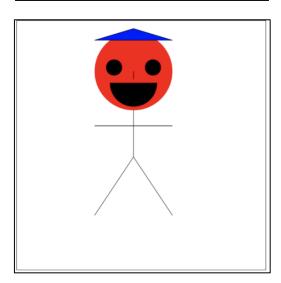
Chapter 14: HTML5, Canvas, and JavaScript

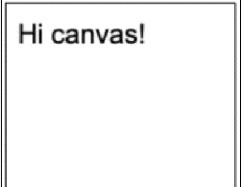












## Hello World

counter:1

counter:2

counter:3

counter:4

counter:5

counter:6

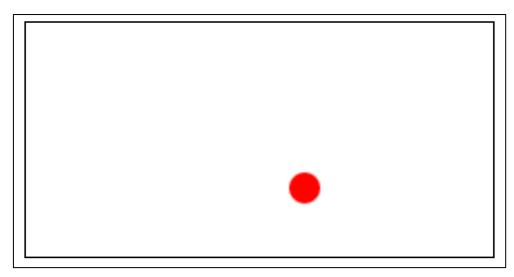
counter:7

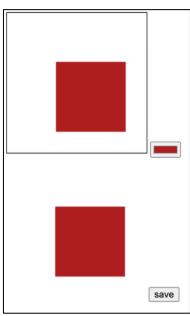
counter:8

counter:9

counter:10









### **Chapter 15: Next Steps**

Let's play a game!

Of hide and seek...

I'm easy to find!

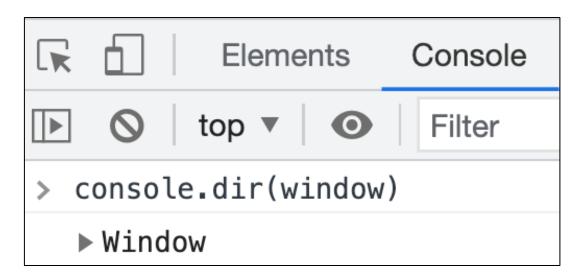
Great idea Found you!

# **Appendix: Practice Exercise, Project, and Self-Check Quiz Answers**

(index)	0	1	2	3	4	5	6
0	1	2	3	4	5	6	7
1	8	9	10	11	12	13	14
2	15	16	17	18	19	20	21
3	22	23	24	25	26	27	28
<b>▶1</b> : (7) [8	1, 2, 3, 4, 5, 6, 7 3, 9, 10, 11, 12, 1 15, 16, 17, 18, 19,	3, 14]					

(index)	0	1	2	3	4	5	6	7	
0	1	2	3	4	5	6	7	8	
1	9	10	11	12	13	14	15	16	
2	17	18	19	20	21	22	23	24	
3	25	26	27	28	29	30	31	32	
4	33	34	35	36	37	38	39	40	
5	41	42	43	44	45	46	47	48	
6	49	50	51	52	53	54	55	56	
7	57	58	59	60	61	62	63	64	
	, 2, 3, 4, 5, 6, 7 , 10, 11, 12, 13,								
▶ 1: (8) [9] ▶ 2: (8) [1 ▶ 3: (8) [2 ▶ 4: (8) [3 ▶ 5: (8) [4 ▶ 6: (8) [4 ▶ 7: (8) [5] length: 8	, 2, 3, 4, 5, 6, 7 1, 10, 11, 12, 13, 7, 18, 19, 20, 21, 15, 26, 27, 28, 29, 36, 34, 35, 36, 37, 11, 42, 43, 44, 45, 19, 50, 51, 52, 53, 17, 58, 59, 60, 61,	14, 15, 16] 22, 23, 24] 30, 31, 32] 38, 39, 40] 46, 47, 48] 54, 55, 56]							

	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1.	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81
		, 0, 0, 0, 0,								
▶ 1: (10 ▶ 2: (10 ▶ 3: (10 ▶ 4: (10 ▶ 5: (10 ▶ 6: (10 ▶ 7: (10 ▶ 8: (10 ▶ 9: (10	(a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	, 4, 5, 6, 7, , 8, 10, 12, , 12, 15, 18, 2, 16, 20, 24 15, 20, 25, 3 18, 24, 30, 3 21, 28, 35, 4 24, 32, 40, 4	8, 9] 14, 16, 18] 21, 24, 27] 28, 32, 36 0, 35, 40, 4 6, 42, 48, 5 2, 49, 56, 6 8, 56, 64, 7	] 5] 4] 3] 2]						
▶ 1: (10 ▶ 2: (10 ▶ 3: (10 ▶ 4: (10 ▶ 5: (10 ▶ 6: (10 ▶ 7: (10 ▶ 8: (10 ▶ 9: (10 length	(a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	, 4, 5, 6, 7, , 8, 10, 12, , 12, 15, 18, 2, 16, 20, 24 15, 20, 25, 3 18, 24, 30, 3 21, 28, 35, 4 24, 32, 40, 4 27, 36, 45, 5	8, 9] 14, 16, 18] 21, 24, 27] 28, 32, 36 0, 35, 40, 4 6, 42, 48, 5 2, 49, 56, 6 8, 56, 64, 7	] 5] 4] 3] 2]						





< ▶ #text