

Line wrap ☐

```
1 <!DOCTYPE html>
2
3
4
5 <html lang="en" >
6 <head>
7 <script>
8 (function headInitializer() {
9   var dataLayerObject = {
10     company_unique_id: 'ep3tr8500n6',
11     test_unique_id: '3fmkoj68e7q'
12   };
13   dataLayerObject['gaUserId'] = '7aa0b06513e2141da303c9d4eb8431437702d234'
14   dataLayerObject['attempt_id'] = 26710752
15   window.dataLayer = [dataLayerObject];
16   window.userAgent = {"family": "Chrome", "major": "91", "minor": "0", "patch": "4472", "device": {"family": "Other", "major": "0", "minor": "0", "patch": "0"},'
17 });
18 </script>
19
20
21 <script>
22 (function loadFullStory() {
23   window['_fs_debug'] = false;
24   window['_fs_host'] = 'fullstory.com';
25   window['_fs_script'] = 'edge.fullstory.com/s/fs.js';
26   window['_fs_org'] = 'Q02VK';
27   window['_fs_namespace'] = 'CANDIDATE_FS';
28   (function(m,n,e,t,l,o,g,y){
29     if (e in m) {if(m.console && m.console.log) { m.console.log('FullStory namespace conflict. Please set window["_fs_namespace"].');} return;}
30     g=m[e]=function(a,b,s){g.q?g.q.push([a,b,s]):g._api(a,b,s)};g.q=[];
31     o=n.createElement(t);o.async=1;o.crossOrigin='anonymous';o.src='https://'+_fs_script;
32     y=n.getElementsByTagName(t)[0];y.parentNode.insertBefore(o,y);
33     g.identify=function(i,v,s){g(l,{uid:i},s);if(v)g(l,v,s)};g.setUserVars=function(v,s){g(l,v,s)};g.event=function(i,v,s){g('event',{n:i,p:v},
34     g.shutdown=function(i,v,s){g("rec",!1)};g.restart=function(i,v,s){g("rec",!0)};
35     g.log = function(a,b){g("log",[a,b])};
36     g.consent=function(a){g("consent",!arguments.length||a)};
37     g.identifyAccount=function(i,v){o='account';v=v||{};v.acctId=i;g(o,v)};
38     g.clearUserCookie=function(){};
39     g._w={};y='XMLHttpRequest';g._w[y]=m[y];y='fetch';g._w[y]=m[y];
40     if(m[y].m[y]=function(){return g._w[y].apply(this,arguments)});
41   })(window,document,window['_fs_namespace'],'script','user');
42 })()
43 </script>
44 <script>
45 //HR namespace
46 HR = window.HR || {};
47 HR.enableFullstory = true;
48
49 HR.currentFullstoryId = 26710752;
50
51 </script>
52
53 <meta charset="utf-8"/>
54
55 <title> HackerRank </title><meta name="description" id="meta-description" content="Join over 7 million developers in solving code challenges on HackerR
56 <script>
57   window.BACKEND_ENDPOINT = 'https://www.hackerrank.com/';
58   window.MANIFEST_VERSION = 'a110793360';
59 </script>
60
61 <meta name="viewport" content="width=device-width, initial-scale=1">
62 <link rel="icon" type="image/png" href="https://hrcdn.net/candidate-site/assets/favicon-3c604dd5e6.png" />
63
64 <!-- Prefetch dns on production -->
65
66 <link rel="dns-prefetch" href="//hrcdn.net">
67 <link rel="dns-prefetch" href="//d3keuzeb2crhkn.cloudfront.net">
68 <link rel="dns-prefetch" href="//notifications.hackerrank.com">
69 <link rel="dns-prefetch" href="//api.mixpanel.com">
70 <link rel="dns-prefetch" href="//metrics.hackerrank.com">
71 <link rel="preconnect" href="https://sentry.io">
72 <link rel="dns-prefetch" href="//sentry.io">
73 <link rel="dns-prefetch" href="//browser.sentry-cdn.com">
74 <link rel="dns-prefetch" href="//www.google-analytics.com">
75 <link rel="dns-prefetch" href="//www.googletagmanager.com">
76
77
78
79
80 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors-hackerrank_r_app-69c1ef85.css">
81
82 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/hackerrank_r_app-4edea2dc.css">
83
84 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors-coding_question_view-custom_input-frontend_question_view
85
86 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors-coding_question_view-custom_input-frontend_question_view
87
88 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors-testbase-19324e5d.css">
89
90 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/commons-diagram_question_view-hackerrank_r_login_view-subjectiv
91
92 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/commons-hackerrank_r_login_view-testbase-828fd002.css">
93
94 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/testbase-f72aed4b.css">
95
96 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors-code_review_view-coding_question_view-frontend_question
97
```

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98 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~custom_input~frontend_question_view
99
100 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~whiteboard_question-19324e5d.css">
101
102 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/commons~coding_question_view~whiteboard_question-3799a584.css">
103
104 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/coding_question_view-5ab23d40.css">
105
106 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/vendors~basequestion-91bc1783.css">
107
108 <link rel="stylesheet" type="text/css" href="https://hrcdn.net/candidate-site/assets/basequestion-d38b87e4.css">
109
110
111 <!-- Prefetch / preload assets on production -->
112
113
114 <!-- preload scripts required on the same page -->
115 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/hackerrank_r_vendor-8b139cdd35.js">
116 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/hackerrank_r_client-1a49ff84.js">
117 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/runtime-3d59f276.js">
118 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/chunks_runtime-ea01e074e5.js">
119
120
121 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~hackerrank_r_app-41be7a6d.js">
122
123 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/hackerrank_r_app-c4b2ceb7.js">
124
125 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~custom_input~frontend_question_view~hack
126
127 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~custom_input~frontend_question_view~rba
128
129 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~testbase-3aa96f51.js">
130
131 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/commons~diagram_question_view~hackerrank_r_login_view~subjective_que
132
133 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/commons~hackerrank_r_login_view~testbase-210a08d1.js">
134
135 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/testbase-f2add8b3.js">
136
137 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~code_review_view~coding_question_view~frontend_question_view~
138
139 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~custom_input~frontend_question_view~rba
140
141 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~coding_question_view~whiteboard_question-f37bf124.js">
142
143 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/commons~coding_question_view~whiteboard_question-73711bc7.js">
144
145 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/coding_question_view-6135d3ac.js">
146
147 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/vendors~basequestion-6a17a019.js">
148
149 <link rel="preload" as="script" href="https://hrcdn.net/candidate-site/assets/basequestion-229b1bff.js">
150
151 <!-- preload scripts end -->
152
153
154
155 <!-- Load promise polyfill for the non-believers -->
156 <script>
157 (window.Promise && window.Promise.prototype.finally) || document.write('<script src="https://hrcdn.net/candidate-site/assets/polyfill-d05a380d50.min
158 </script>
159 <!-- Added for GTM and sentry -->
160
161
162 <script>
163 window.dataLayer = window.dataLayer || [];
164 </script>
165
166
167 <script>(function(w,d,s,l,i){w[l]=w[l]||[];w[l].push({'gtm.start':
168 new Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],
169 j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=
170 'https://www.googletagmanager.com/gtm.js?id='+i+dl;f.parentNode.insertBefore(j,f);
171 })(window,document,'script','dataLayer','GTM-PBPFQ7N');</script>
172
173
174
175
176
177 <script>
178 var errorQueue = [];
179 (function(window) {
180   function errorListener(event) {
181     if (event.type === 'unhandledrejection' && !event.reason) {
182       return;
183     }
184     errorQueue.push(event);
185   }
186   window.addEventListener('error', errorListener);
187   window.addEventListener('unhandledrejection', errorListener);
188   window.removeInitialErrorListeners = function() {
189     window.removeEventListener('error', errorListener);
190     window.removeEventListener('unhandledrejection', errorListener);
191   };
192   window.getSentryConfig = function () {
193     return {
194       token: "76b68c9f9470440faa544a0602206fe9",
195     }
196   }
197 }
```

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195     projectID: "1393856",
196   };
197   });
198   })(window);
199 </script>
200
201
202
203 </head>
204
205
206
207 <body class="theme-m">
208
209
210 <!-- Just a placeholder div to start loading open sans and source code loader -->
211 <div class="font-open-sans-loader"></div>
212 <div class="font-source-code-loader"></div>
213 <!-- Just a placeholder div to start loading open sans and source code loader end -->
214
215 <div id="content" onclick="void(0);"><div class="ui-kit-root"><div class="body-wrap base-page test_view-page question_listview-page single_question_
216 </style>
217 <div class="ps-content-wrapper-v0">
218 <p>For two integer arrays, the comparatorValue is the total number of elements in the first array such that there exists no integer in the se
219
220 <p></p>
221
222 <p>For example there are two arrays a = [ 7, 5, 9], b = [ 13, 1, 4 ], and the integer d = 3. The absolute difference of a
223
224 <p></p>
225
226 <p class="section-title">Function Description</p>
227
228 <p>Complete the function comparatorValue in the editor below. The function must return an integer that denotes the comparator value of the arr
229
230 <p></p>
231
232 <p>comparatorValue has the following parameter(s):</p>
233
234 <p> a[a[0],...a[n - 1]]: an array of integers</p>
235
236 <p> b[b[0],...b[m - 1]]: an array of integers</p>
237
238 <p> d: an integer</p>
239
240 <p></p>
241
242 <p class="section-title">Constraints</p>
243
244 <ul>
245 <li> $1 \leq n, m \leq 10^5$ </li>
246 <li> $0 \leq a[i], b[j], d \leq 10^8$ </li>
247 </ul>
248
249 <p></p>
250 <!-- <StartOfInputFormat> DO NOT REMOVE THIS LINE-->
251
252 <details><summary class="section-title">Input Format For Custom Testing</summary>
253
254 <div class="collapsible-details">
255 <p>The first line contains an integer, n, the number of elements in a.</p>
256
257 <p>Each line i of the n subsequent lines (where  $0 \leq i < n$ ) contains an integer, a[i].</p>
258
259 <p>The next line contains an integer, m, the number of elements in b.</p>
260
261 <p>Each line j of the m subsequent lines (where  $0 \leq j < m$ ) contains an integer, b[j].</p>
262
263 <p>The last line contains an integer, d, that denotes the maximum allowed absolute difference in the values of the elements.</p>
264 </div>
265 </details>
266 <!-- </StartOfInputFormat> DO NOT REMOVE THIS LINE-->
267
268 <details open="open"><summary class="section-title">Sample Case 0</summary>
269
270 <div class="collapsible-details">
271 <p class="section-title">Sample Input For Custom Testing</p>
272
273 <pre>
274 3
275 3
276 1
277 5
278 3
279 5
280 6
281 7
282 2</pre>
283
284 <p class="section-title">Sample Output</p>
285
286 <pre>
287 1</pre>
288
289 <p class="section-title">Explanation</p>
290
291 <p>The first array a = [3, 1, 5], the second array b = [5, 6, 7], and d = 2. Now find the absolute difference of
292

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293 <ul>
294   <li>For <em>a[0] = 3</em>, the differences are a[0] - b[0] = 3 - 5 = -2, a[0] - b[1] = 3 - 6 = -3, and a[0] - b[2] = 3 - 7 = -4. Therefore, the abs
295   <li>For <em>a[1] = 1</em>, the differences are a[1] - b[0] = 1 - 5 = -4, a[1] - b[1] = 1 - 6 = -5, and a[1] - b[2] = 1 - 7 = -6. Therefore, the abs
296   <li>For <em>a[2] = 5</em>, the differences are a[2] - b[0] = 5 - 5 = 0, a[2] - b[1] = 5 - 6 = -1, and a[2] - b[2] = 5 - 7 = -2. Therefore, the abs
297 </ul>
298
299 <p>The comparator value is 1.</p>
300 </div>
301 </details>
302 </div>
303 </div></div></section></div></div></div><div aria-grabbed="false" aria-controls="main-splitpane-left main-splitpane-right" aria-label="Width of problem"
304
305
306
307
308
309 <script>
310   window.moment = {
311     tz: {},
312   };
313 </script>
314
315
316 <script>
317   //HR namespace
318   HR = window.HR || {};
319   HR.development = false;
320   HR.assetPath = 'https://hrcdn.net/candidate-site/assets/';
321   HR.pageLoadTime = Date.now();
322   HR.production = true;
323   HR.devServer = false;
324   HR.isIsomorphic = true;
325   HR.loadedWithOldCss = true;
326   HR.pusher = {"key":"a280047e3b323ccb1b65","cluster":"mt1"};
327 </script>
328
329 <!-- Vendor scripts -->
330
331 <script src="https://hrcdn.net/candidate-site/assets/hackerrank_r_vendor-8b139cdd35.js"></script>
332
333
334 <script type="application/json" id="initialData">
335   %7B%22app%22:%7B%22clientInitialLoading%22:false,%22toastMessage%22:null,%22countries%22:%5B%5D%7D,%22metadata%22:%7B%22manifest%22:%7B%22brand/h_mar
336 </script>
337 <script src="https://hrcdn.net/candidate-site/assets/runtime-3d59f276.js"></script>
338
339 <script src="https://hrcdn.net/candidate-site/assets/chunks_runtime-ea01e074e5.js"></script>
340
341 <script src="https://hrcdn.net/candidate-site/assets/hackerrank_r_client-1a49ff84.js"></script>
342
343 </body>
344 </html>
345

```