

Codeso-13826145-0-2.java

```
01. private static boolean available(int port) {
02.     System.out.println("-----Testing port " + port);
03.     Socket s = null;
04.     try {
05.         s = new Socket("localhost", port);
06.         // If the code makes it this far without an exception it means
07.         // something is using the port and has responded.
08.         System.out.println("-----Port " + port + " is not
available");
09.         return false;
10.     } catch (IOException e) {
11.         System.out.println("-----Port " + port + " is
available");
12.         return true;
13.     } finally {
14.         if( s != null){
15.             try {
16.                 s.close();
17.             } catch (IOException e) {
18.                 throw new RuntimeException("You should handle this error."
, e);
19.             }
20.         }
21.     }
22. }
```

Users can click the API usage to obtain the code alternatives recommended by our tool.

Users can switch between two levels of code alternatives (API-level and argument-level) by clicking the tabs.

Users can click the tab to show the API usage samples corresponding to the API. (see Section IV.E.2)

new Socket("localhost", port)

Alternative APIs

Alternative Arguments

> new ServerSocket

> new DatagramSocket

new DatagramSocket(port)

new DatagramSocket()

new DatagramSocket(portNumber)

new DatagramSocket(local)

new DatagramSocket(stopPort)

new DatagramSocket(BEAT_PORT)

new DatagramSocket(sockAddress)

new DatagramSocket(localEP)

new DatagramSocket(getLocal().getPort())

new DatagramSocket(currentlyTriedPort)

new DatagramSocket(ANNOUNCEMENT_PORT)

new DatagramSocket(UPDATE_PORT, matchedAddress.getAddress())

> new TSocket

> SocketFactory.createSocket

> ServerSocket.accept

API usage samples

Users can click the tab to show the API usage samples, abstract labels, and concrete arguments corresponding to the N-arg set. (see Section IV.E.3)

Alternative APIs

Alternative Arguments

> 0-Argument Set

> 1-Argument Set

> 2-Argument Set

(addrPort.getInetAddress(), addrPort.getPort())

(hostName, port)

(hostname, port)

(this, this)

(loopBack, Integer.parseInt(args[0]))

(DEFAULT_HOST, DEFAULT_PORT)

(host, port)

(proxyIP, proxyPort)

(addr, port)

(address, port)

(inetAddress, port)

(graphiteHost, graphitePort)

(iaddr, port)

(pURL.getHost(), pPort)

(remotehost, port)

(chained_proxy_host, chained_proxy_port)

(host, Integer.parseInt(port))

("localhost", port)

(address.getHost_name(), address.getPort())

(hostIp, port)

(server, port)

(InetAddress.getByName(ip), port)

net · name

port · address · arg

"localhost"

> 4-Argument Set

API usage samples

Abstract labels

Concrete arguments