



Q08 - Listeners accessed programmatically



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Considering Servlets 3.0, which listeners can be added programatically:

- a. ServletContextListener
- b. ServletContextAttributeListener
- c. ServletRequestListener
- d. ServletRequestAttributeListener
- e. HttpSessionActivationListener
- f. HttpSessionAttributeListener
- g. HttpSessionBindingListener
- h. you cannot add listeners programatically

Hide answer

a, b, c, d, f

Reference: page 34, 4.4.3 "Programmatically adding and configuring Listeners"

Explanation: As said before, the programmatically addition of listeners / servlets / filters can be made **only before** the ServletContext is fully initialized. This means that in common cases programmatic addition of ServletContextListener is **useless**. However, there is a special case when ServletContextListener can be programmatically registered - it's when the ServletContext is obtained from the ServletContainerInitializer#onStartup() method.

The HttpSessionActivationListener and HttpSessionBindingListener are listeners related to the particular object and as-is doesn't need to be registered at all.