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## Q06 - Programmatical features of Servlets 3.0 [2]

Considering Servlets 3.0, you can programmatically add servlets / filters:

- a. only from `ServletContextListener`
- b. only from `ServletContainerInitializer`,
- c. only from class which is configured with DD element `<load-on-startup>` or `loadOnStartup` attribute of the `@WebServlet` annotation with value `>0`,
- d. only a and b are correct
- e. only a and c are correct
- f. only b and c are correct
- g. a, b and c are all correct

[Hide answer](#)

d

**Reference:** page 30, 4.4 "Configuration methods"

**Explanation:** Programmatic addition of servlets / filters can be achieved only when the `ServletContext` is **not fully initialized**. Otherwise, the `IllegalStateException` will be thrown. This can be achieved from within the `ServletContextListener` or the `ServletContainerInitializer`.

The `<load-on-startup>` nor the `loadOnStartup` `@WebServlet` annotation attribute **doesn't have any effect in this case**.