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Version WebApp-1.0-EN (Classic)

# OWASP Snakes and Ladders

## - Web Applications -

Snakes and Ladders is an educational application security awareness game. This version is all about web applications, with the OWASP Top Ten Proactive Controls as ladders, and the well-known OWASP Top Ten Most Critical Risks as snakes. Thank you to the leaders and other contributors of those two projects.

## OWASP Top Ten Proactive Web Application Controls (2014)

The OWASP Top Ten Proactive Controls is a list of security techniques that should be included in every software development project.

C1 Parameterize Queries  
C2 Encode Data  
C3 Validate All Inputs  
C4 Implement Appropriate Access Controls  
C5 Establish Identity and Authentication Controls  
C6 Protect Data and Privacy  
C7 Implement Logging, Error Handling and Intrusion Detection  
C8 Leverage Security Features of Frameworks and Security Libraries  
C9 Include Security-Specific Requirements  
C10 Design and Architect Security In

[https://www.owasp.org/index.php/OWASP\\_Proactive\\_Controls](https://www.owasp.org/index.php/OWASP_Proactive_Controls)

## OWASP Top Ten Most Critical Web Application Risks (2013)

The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are.

A1 Injection  
A2 Broken Authentication and Session Management  
A3 Cross-Site Scripting (XSS)  
A4 Insecure Direct Object References  
A5 Security Misconfiguration  
A6 Sensitive Data Exposure  
A7 Missing Function Level Access Control  
A8 Cross-Site Request Forgery (CSRF)  
A9 Using Components with Known Vulnerabilities  
A10 Unvalidated Redirects and Forwards

<https://www.owasp.org/index.php/TopTen>

The source file for this sheet, sheets on other application security topics, various language versions, and further information about the OWASP Snakes and Ladders project can be found on the OWASP website at [https://www.owasp.org/index.php/OWASP\\_Snakes\\_and\\_Ladders](https://www.owasp.org/index.php/OWASP_Snakes_and_Ladders)

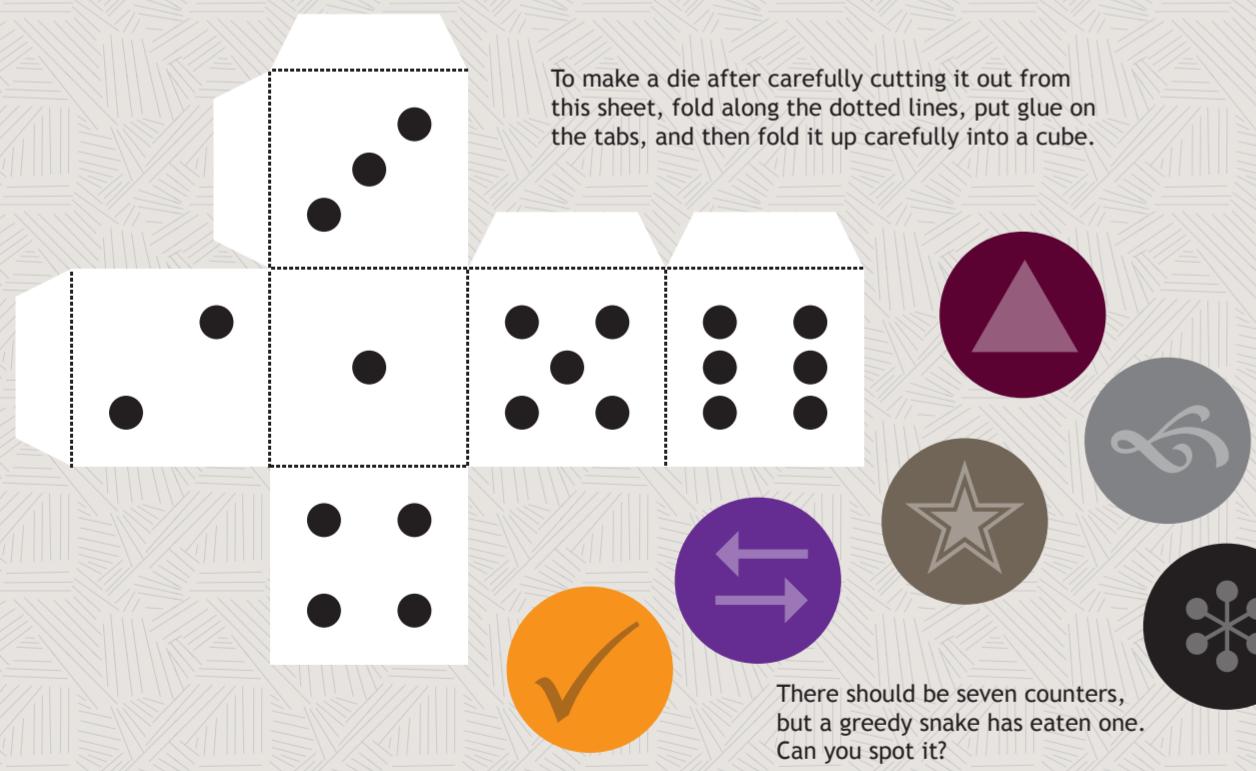
## Background

Snakes and Ladders is a popular board game, imported into Great Britain by the Victorians based on a game from Asia. The original game showed the effects of good and evil, or virtues and vices. The game is known as Chutes and Ladders in some parts of the Americas. In this OWASP version, the virtuous behaviours are secure coding practices (the proactive controls) and the vices are application security risks.

## Warning

OWASP Snakes and Ladders is meant to be used by software programmers, big and small. This paper game sheet is not harmful, but if you choose to use your own plastic or wooden die and counters, those might have a choking risk for children under 4 years old.

No die or counters? Cut the shapes out below use the coloured circles as counters for each player. Alternatively write a computer program to simulate a six-sided die, or use a random number generator app on your phone or computer to create integers between 1 and 6. Check how random it is though!



## Project Leader

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