Let us look at the system calls

find/rm	Attacker
	mkdir (“/tmp/badetc”)
	creat (“/tmp/badetc/passwd”)
readdir (“/tmp”) → “badetc”	
lstat (“/tmp/badetc”) → DIRECTORY	
readdir (“/tmp/badetc”) → “passwd”	
unlink (“/tmp/badetc/passwd”)	

TOCTOU attack

find/rm	Attacker
readdir (“/tmp”) → “badetc”	mkdir (“/tmp/badetc”)
lstat (“/tmp/badetc”) → DIRECTORY	creat (“/tmp/badetc/passwd”)
readdir (“/tmp/badetc”) → “passwd”	
	rename (“/tmp/badetc” → “/tmp/x”)
	symlink (“/etc”, “/tmp/badetc”)
unlink (“/tmp/badetc/passwd”)	

Time-of-check-to-time-of-use (a.k.a TOCTOU) bug

- find checks that `/tmp/badetc` is not symlink
- but meaning of file name changes before it is used