We consider a limit theorem for the distribution of a r.v. $Y_n = \arg \max_{1 \le i \le n} \{X_i\}$, where X_i 's are independent continuous non-negative r.v.'s. The r.v.'s X_i , i = 1, ..., n, may be interpreted as the gains of n players in a game, and the r.v. Y_n itself as the number of a "winner". In the case of i.i.d.r.v.'s, the distribution of Y_n is, clearly, uniform on $\{1, ..., n\}$, while when the X's are non-identically distributed, the problem becomes more interesting.

(based on joint work with Vladimir Rotar)