

$n$	$P(a < b A < B)$	$\alpha$
$10^3$	$\geq 0.586$	$\approx 0.574$
$10^4$	$\geq 0.743$	$\approx 0.574$
$10^5$	$\geq 0.859$	$\approx 0.568$
$10^6$	$\geq 0.927$	$\approx 0.563$
$10^7$	$\geq 0.963$	$\approx 0.557$
$10^8$	$\geq 0.982$	$\approx 0.553$
$10^9$	$\geq 0.991$	$\approx 0.549$