

Self defense strategy

			C
		C	C
	C	C	
C	C		

Each cop/robber is safe in this placement.

For C = 30, R = 29, grid = 10 x 10

Cop dead

			C	C	R		R	C	C
		C	C	R	R			R	C
	C	C	R	R				R	R
C	C	R	R						
C	R	R						R	R
C	R	R					R	R	C
C	C	R	R			R	R	C	C
	C	C	R	R	R	R	C	C	
		C	C	R	R	C	C		
			C	C	C	C			

C = only moveable cop

Infinite loop

x	C	C	C	C	C	C	C	C	
C	x								C
C	C			R	R				C
C			R	R	R	R			C
C		R	R			R	R		C
C		R	R	R		R	R		C
C	C		R	R	R	R			C
C	x		R	R	R	R			C
C	C		R	R	R			C	C
x	C		R	R	R	R	C		x

R = robber move inside the area to escape its turns

x = blind spots (the area the robbers must avoid).

Conclusion

No possible ways found to place the cops in large grid to catch the robber.