```
algo(G, v, A)
	G' = trasposta di G
	return distanzaK(G', v, A)

-------------------------

init(G)
	if (G != NIL)
		for each v in G
			colore[v] = bianco
			dist[v] = -1
			ina[v] = false

-------------------------

aizefy(A)
	if (A != NIL)
		for each v in A
			ina[v] = true

-------------------------

distanzaK(G, s, A)
	init(G')
	aizefy(A)

	queue = vuoto

	colore[s] = grigio
	dist[s] = 0
	if (ina[s] = true)
		return 0
	push(queue, s)

	while (size(queue) > 0)
		x = pop(queue)
		for each v in adiac[x]
			if (colore[v] = bianco)
				colore[v] = grigio
				dist[v] = dist[x] + 1
				if (ina[v] = true)
					return dist[v]
				push(queue, v)
		colore[x] = nero

	return -1
```