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IC 1	query	Interactive / complex / 12																											
IC 2	title	Expert search																											
IC 3	pattern																												
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	desc.	Given a start Person, find the Comments that this Person’s friends made in reply to Posts, considering only those Comments that are direct (single-hop) replies to Posts, not the transitive (multi-hop) ones. Only consider Posts with a Tag in a given TagClass or in a descendent of that TagClass. Count the number of these reply Comments, and collect the Tags that were attached to the Posts they replied to, but only collect Tags with the given TagClass or with a descendant of that TagClass. Return Persons with at least one reply, the reply count, and the collection of Tags.																											
	params	<table><tr><td>1</td><td>personId</td><td>ID</td><td></td></tr><tr><td>2</td><td>tagClassName</td><td>Long String</td><td></td></tr></table>	1	personId	ID		2	tagClassName	Long String																				
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	result	<table><tr><td>1</td><td>friend.id</td><td>ID</td><td>R</td><td></td></tr><tr><td>2</td><td>friend.firstName</td><td>String</td><td>R</td><td></td></tr><tr><td>3</td><td>friend.lastName</td><td>String</td><td>R</td><td></td></tr><tr><td>4</td><td>tagNames</td><td>{Long String}</td><td>A</td><td></td></tr><tr><td>5</td><td>replyCount</td><td>32-bit Integer</td><td>A</td><td></td></tr></table>	1	friend.id	ID	R		2	friend.firstName	String	R		3	friend.lastName	String	R		4	tagNames	{Long String}	A		5	replyCount	32-bit Integer	A			
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	sort	<table><tr><td>1</td><td>replyCount</td><td>↓</td><td></td></tr><tr><td>2</td><td>friend.id</td><td>↑</td><td></td></tr></table>	1	replyCount	↓		2	friend.id	↑																				
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	limit	20																											
	CPs	3.3, 7.2, 7.3, 8.2																											
	relevance	This query starts at a Person, moves to its friends, and the to their Comments and their root Posts. Then, it gets the Tag of each Post and checks whether it (directly or transitively) belongs to the specified TagClass. This can be thought of a bidirectional search between the Person and the TagClass. The difficulty of this query is determining the optimal direction of this traversal.																											