

Question 3

30 pts

Consider the relational schema below:

```
Students(sid: integer, sname: string, degree: string, gpa: real)
College(cid: integer, cname: string)
Enrollment(sid: integer, cid: integer, onCoop: boolean)
```

Write a **relational algebra expression** that satisfies this query?

- Find the total number of all students in "Khoury" who have a GPA above 3.8 and are on coop.

Submit your answer as a file attachment. You may write the answer in pencil and take a picture and submit that picture.

Be sure to put your name into your submission file.

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Answer:

$$\mathcal{F}_{\text{Count}(sid)} \left(\sigma_{cname = 'Khoury' \wedge gpa > 3.8 \wedge onCoop = True} (Students \bowtie College \bowtie Enrollment) \right)$$