

Assignment 4  
Computer Science  
Fall 2017  
B461

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**Answers**

1. Find the bookno of each book that is cited by at least one book that cost less than \$50.

$$\pi_{C.CitedBid}(\sigma_{B.Price < 50} (Cites \bowtie_{C.CitedBid=B.Bookno} Book))$$

2. Find the bookno and title of each book that was bought by a student who majors in CS and in Math.  
Let Major1 be a copy of Major with schema  $(sid, major)$ .

$$\pi_{B.Bookno, B.Title}((Student \bowtie \sigma_{M.Major=Math \wedge M1.Major=CS}(Major \bowtie Major1))) \bowtie Buys \bowtie Book)$$