HOMEWORK: HOMEWORK 6.4

You have a sharded system with three shards and have sharded the collections "grades" in the "test" database across those shards. The output of sh.status() when connected to mongos looks like this:

```
mongos> sh.status()
--- Sharding Status ---
  sharding version: { "_id" : 1, "version" : 3 }
  shards:
        {  "_id" : "s0",  "host" : "s0/localhost:37017,localhost:37018,localho
st:37019" }
        {  "_id" : "s1",  "host" : "s1/localhost:47017,localhost:47018,localho
st:47019" }
        {  "_id" : "s2",  "host" : "s2/localhost:57017,localhost:57018,localho
st:57019" }
  databases:
        {  "_id" : "admin",  "partitioned" : false,  "primary" : "config" }
        {  "_id" : "test",  "partitioned" : true,  "primary" : "s0" }
                test.grades chunks:
                                s1      4
                                s0      4
                                s2      4
                        { "student_id" : { $minKey : 1 } } -->> { "student_id"
: 0 } on : s1 Timestamp(12000, 0)
                        { "student_id" : 0 } -->> { "student_id" : 2640 } on :
s0 Timestamp(11000, 1)
                        { "student_id" : 2640 } -->> { "student_id" : 91918 } o
n : s1 Timestamp(10000, 1)
                        { "student_id" : 91918 } -->> { "student_id" : 176201 }
 on : s0 Timestamp(4000, 2)
                        { "student_id" : 176201 } -->> { "student_id" : 256639
} on : s2 Timestamp(12000, 1)
                        { "student_id" : 256639 } -->> { "student_id" : 344351
} on : s2 Timestamp(6000, 2)
                        { "student_id" : 344351 } -->> { "student_id" : 424983
} on : s0 Timestamp(7000, 2)
                        { "student_id" : 424983 } -->> { "student_id" : 509266
} on : s1 Timestamp(8000, 2)
                        { "student_id" : 509266 } -->> { "student_id" : 596849
} on : s1 Timestamp(9000, 2)
                        { "student_id" : 596849 } -->> { "student_id" : 772260
} on : s0 Timestamp(10000, 2)
                        { "student_id" : 772260 } -->> { "student_id" : 945802
} on : s2 Timestamp(11000, 2)
                        { "student_id" : 945802 } -->> { "student_id" : { $maxK
ey : 1 } } on : s2 Timestamp(11000, 3)
```

If you ran the query

```
use test
db.grades.find({'student_id':530289})
```

Which shards would be involved in answering the query?

✔️   ○ s0,s1 and s2

     ○ s0

     ◉ s1

     ○ s2

| SHOW ANSWER | *Submission deadline has passed.*

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