

```
(deftemplate level
  1 7
  (
    (Good (1 1) (5 0))
    (Average (1 0) (4 1) (7 0))
  )
)
```

```
(deftemplate rank
  1 99 Percent
  (
    (High (10 1) (70 0))
  )
)
```

```
(deftemplate grade
  1 15
  (
    (High (7 0) (13 0.8) (15 1))
  )
)
```

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[admission.txt](#)

請推理出符合科系需求的所有學生ID，
設定篩選符合程度須至少0.5，結果為

```
FuzzyCLIPS> (set-alpha-value 0.5)
FuzzyCLIPS> (reset)
FuzzyCLIPS> (run)
Recommend Student ?
Recommend Student ?
Recommend Student ?
Recommend Student ?
Recommend Student ?
Total: 5
```

設定篩選符合程度須至少0.8，結果為

```
FuzzyCLIPS> (set-alpha-value 0.8)
FuzzyCLIPS> (reset)
FuzzyCLIPS> (run)
Recommend Student ?
Total: 1
```

- 某科系甄選學生的需求條件如下，請推薦符合需求的學生代號及計算推薦人數：
 - 評價**較好**(Good)的學校，在校成績只要**稍微高一點**(somewhat High)就可以
 - 評價**一般**(Average)的學校，在校成績必須要**高**(High)才可以
 - 評價**不好**(not Good)的學校，在校成績必須**非常高**(very High)才可以
 - 學測的數學級分，必須要**高**(High)才可以
 - 學測的自然級分，只要**稍微高一點**(somewhat High)就可以
- 此科系各項成績需求的模糊值如右，事實的定義和資料如下：

```
(deftemplate school
  (slot ID)
  (slot evaluation (type FUZZY-VALUE level))
)
```

```
(deftemplate student
  (slot ID)
  (slot school-ID)
  (slot GPA-rank (type FUZZY-VALUE rank))
  (slot math (type FUZZY-VALUE grade))
  (slot nature (type FUZZY-VALUE grade))
)
```

```
(deffacts initial
  (total 0)
  (school (ID 1) (evaluation (2 0) (2 1) (2 0)))
  (school (ID 2) (evaluation (4 0) (4 1) (4 0)))
  (school (ID 3) (evaluation (6 0) (6 1) (6 0)))
  (student (ID 1) (school-ID 1) (GPA-rank (58 0) (58 1) (58 0)) (math (14 0) (14 1) (14 0)) (nature (13 0) (13 1) (13 0)))
  (student (ID 2) (school-ID 1) (GPA-rank (51 0) (51 1) (51 0)) (math (11 0) (11 1) (11 0)) (nature (9 0) (9 1) (9 0)))
  (student (ID 3) (school-ID 1) (GPA-rank (40 0) (40 1) (40 0)) (math (13 0) (13 1) (13 0)) (nature (11 0) (11 1) (11 0)))
  (student (ID 4) (school-ID 2) (GPA-rank (47 0) (47 1) (47 0)) (math (11 0) (11 1) (11 0)) (nature (12 0) (12 1) (12 0)))
  (student (ID 5) (school-ID 2) (GPA-rank (39 0) (39 1) (39 0)) (math (12 0) (12 1) (12 0)) (nature (10 0) (10 1) (10 0)))
  (student (ID 6) (school-ID 2) (GPA-rank (20 0) (20 1) (20 0)) (math (13 0) (13 1) (13 0)) (nature (12 0) (12 1) (12 0)))
  (student (ID 7) (school-ID 3) (GPA-rank (12 0) (12 1) (12 0)) (math (15 0) (15 1) (15 0)) (nature (8 0) (8 1) (8 0)))
  (student (ID 8) (school-ID 3) (GPA-rank (21 0) (21 1) (21 0)) (math (12 0) (12 1) (12 0)) (nature (10 0) (10 1) (10 0)))
  (student (ID 9) (school-ID 3) (GPA-rank (33 0) (33 1) (33 0)) (math (12 0) (12 1) (12 0)) (nature (11 0) (11 1) (11 0)))
)
```