

The background is a light cream color, decorated with various 3D geometric shapes in a muted sage green. These shapes include a large sphere on the left, a smaller sphere on the right, a rectangular frame tilted in the upper center, a wavy line in the top right, a cone on the right, a cube in the top left, a large horizontal oval in the lower center, and several other smaller cubes and cones scattered around. The main title is centered over these shapes.

# **Skincare Recommendations**

Based on products from The Ordinary

# Key Features

- Recommendation Ranking System
- Detection and Avoidance of  
Contraindications/Conflicts

# Recommendation Ranking System

OUTPUTS GLYCOLIC ACID

input.txt:

% Skin Concerns

concerns(sebum).

% Sensitivity Level

sensitivity\_level(low).

% Skin Type

skin\_type(oily).

```
(base) arunima@arunima-VM:~/HackReason/SkincareReco  
mmendation$ cat output.txt  
QUERY:?- product(A),recommendation(A).  
  
ANSWER: 1 (in 22339.084 ms)  
  
MODEL:  
{ }  
  
BINDINGS:  
A = glycolic_acid
```

# Recommendation Ranking System

```
(base) arunima@arunima-VM:~/HackReason/SkincareReco  
mmendation$ scasp master.pl  
QUERY:?- product(A),recommendation(A).  
  
        ANSWER: 1 (in 54726.973 ms)  
  
MODEL:  
{  }  
  
BINDINGS:  
A = mandelic_acid ? ;
```

OUTPUTS MANDELIC ACID

input.txt:

% Skin Concerns  
concerns(sebum).

% Sensitivity Level  
sensitivity\_level(high).

% Skin Type  
skin\_type(oily).

# Detection of Contraindication

SHOULD OUTPUT MANDELIC ACID

concerns(pigmentation)

sensitivity\_level(high)

skin\_type(oily)

```
(base) arunima@arunima-VM:~/HackReason/SkincareReco  
mmendation$ scasp master.pl  
QUERY:?- product(A),recommendation(A).
```

```
ANSWER: 1 (in 54726.973 ms)
```

```
MODEL:  
{ }
```

```
BINDINGS:  
A = mandelic_acid ? ;
```

SHOULD OUTPUT ALPHA ARBUTIN

Skin Concerns

concerns(dullness)

sensitivity\_level(high)

skin\_type(oily)

**Why? Because Vitamin C is recommended too!**

```
(base) arunima@arunima-VM:~/HackReason/SkincareReco  
mmendation$ scasp master.pl  
QUERY:?- product(A),recommendation(A).  
  
ANSWER: 1 (in 35241.582 ms)
```

```
MODEL:  
{ }
```

```
BINDINGS:  
A = alpha_arbutin ? ;
```

```
ANSWER: 2 (in 135552.071 ms)
```

```
MODEL:  
{ }
```

```
BINDINGS:  
A = vitamin_c ? ;
```

```
(base) arunima@arunima-VM:~/HackReason/SkincareReco
```