

```
> for i from 1 to 6 do  
>   tos(toSnFrob(s[6],i));  
> od;
```

s[1]

(6) s[1]

$$(60) s[1]*s[1] + (51) s[1]*s[1] + (42) s[1]*s[1] + (33) s[2]$$
$$(600) s[1]*s[2] + (510) s[1]^3 + (420) s[1]^3 + (330) s[2]*s[1] + (411) s[2]*s[1] + (321) s[1]^3 + (222) s[3]$$
$$(6000) s[1]*s[3] + (5100) s[1]^2*s[2] + (4200) s[1]^2*s[2] + (3300) s[2]^2 + (4110) s[2]*s[1]^2 + (3210) s[1]^4 + (2220) s[3]*s[1] + (3111) s[3]*s[1] + (2211) s[2]^2$$
$$(60000) s[1]*s[4] + (51000) s[1]^2*s[3] + (42000) s[1]^2*s[3] + (33000) s[2]*s[3] + (41100) s[2]^2*s[1] + (32100) s[1]^3*s[2] + (22200) s[3]*s[2] + (31110) s[3]*s[1]^2 + (22110) s[2]^2*s[1] + (21111) s[4]*s[1]$$
$$(600000) s[1]*s[5] + (510000) s[1]^2*s[4] + (420000) s[1]^2*s[4] + (330000) s[2]*s[4] + (411000) s[2]^2*s[3] + (321000) s[2]*s[1]*s[3] + (321000) s[1]^3*s[3] + (222000) s[3]^2 + (311100) s[3]*s[2]*s[1] + (221100) s[2]^3 + (211110) s[4]*s[1]^2 + (111111) s[6]$$

```
> for i from 1 to 6 do  
>   tos(toSnFrob(s[5,1],i));  
> od;
```

0

$$(51) s[1]^2 + (42) s[1]^2 + (33) s[1,1]$$
$$(510) s[1]^3 + (420) s[1]^3 + (330) s[1,1]*s[1] + (411) s[1]^3 + (321) 2*s[1]^3 + (222) s[2,1]$$
$$(5100) s[1]^2*s[2] + (4200) s[1]^2*s[2] + (3300) s[1,1]*s[2] + (4110) s[1]^4 + (3210) 2*s[1]^4 + (2220) s[1]*s[2,1] + (2211) s[2]*s[1]^2 + s[1,1]*s[2] + (3111) s[1]^2*s[2]$$
$$(51000) s[1]^2*s[3] + (42000) s[1]^2*s[3] + (33000) s[1,1]*s[3] + (41100) s[1]^3*s[2] + (32100) 2*s[1]^3*s[2] + (22200) s[2,1]*s[2] + (22110) s[2]*s[1]^3 + s[1,1]*s[2]*s[1] + (31110) s[1]^3*s[2] + (21111) s[1]^2*s[3]$$
$$(510000) s[1]^2*s[4] + (420000) s[1]^2*s[4] + (330000) s[1,1]*s[4] + (411000) s[1]^3*s[3] + (321000) 2*s[1]^3*s[3] + (222000) s[2,1]*s[3] + (221100) s[2]^2*s[1]^2 + s[1,1]*s[2]^2 + (311100) s[1]^2*s[2]^2 + (211110) s[1]^3*s[3] + (111111) s[5,1]$$

```
> for i from 1 to 6 do  
>   tos(toSnFrob(s[4,2],i));  
> od;
```

0

$$(42) s[1]^2 + (33) s[2]$$
$$(420) s[1]^3 + (330) s[2]*s[1] + (411) s[2]*s[1] + (321) 2*s[1]^3 + (222) s[2]*s[1]$$
$$(4200) s[1]^2*s[2] + (3300) s[2]^2 + (4110) s[2]*s[1]^2 + (3210) 2*s[1]^4 + (2220) s[2]*s[1]^2 + (3111) s[2]*s[1]^2 + (2211) 2*s[2]^2 + s[1]^2*s[1,1]$$
$$(42000) s[1]^2*s[3] + (33000) s[2]*s[3] + (41100) s[2]^2*s[1] + (32100) 2*s[1]^3*s[2] + (22200) s[2]^2*s[1] + (31110) s[2]*s[1]^3 + (22110) 2*s[2]^2*s[1] + s[1]^3*s[1,1] + (21111) s[2]^2*s[1]$$
$$10 s[6] + 24 s[5,1] + 29 s[4,2] + 20 s[4,1,1] + 11 s[3,3] + 22 s[3,2,1] + 7 s[3,1,1,1] + 5 s[2,2,2] + 4 s[2,2,1,1] + s[2,1,1,1,1]$$
$$(420000) s[1]^2*s[4] + (330000) s[2]*s[4] + (411000) s[3]*s[2]*s[1] + (321000) 2*s[1]^3*s[3] + (222000) s[3]*s[2]*s[1] + (311100) s[2]^2*s[1]^2 + (221100) 2*s[2]^3 + s[1]^2*s[2]*s[1,1] + (211110) s[2]^2*s[1]^2 + (111111) s[4,2]$$

```
> for i from 1 to 6 do  
>   tos(toSnFrob(s[3,3],i));  
> od;
```

0

$$(33) s[1,1]$$
$$s[3] + 3 s[2,1] + 3 s[1,1,1]$$

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(330) s[1,1]*s[1] + (321) s[1]^3 + (222) s[1,1,1]

      2 s[4] + 7 s[3, 1] + 2 s[2, 2] + 7 s[2, 1, 1] + 2 s[1, 1, 1, 1]
(3300) s[1,1]*s[2] + (3210) s[1]^4 + (2220) s[1,1,1]*s[1] + (3111) s[1]*s[3] + (2211) 2*s[2]*s[1,1]

      2 s[5] + 9 s[4, 1] + 7 s[3, 2] + 11 s[3, 1, 1] + 4 s[2, 2, 1] + 4 s[2, 1, 1, 1]
(33000) s[1,1]*s[3] + (32100) s[1]^3*s[2] + (22200) s[1,1,1]*s[2] + (31110) s[1]^2*s[3] + (22110) 2*s[2]*s[1,1]*s[1]
+ (21111) s[1]*s[3,1]

      2 s[6] + 9 s[5, 1] + 9 s[4, 2] + 12 s[4, 1, 1] + 6 s[3, 3] + 9 s[3, 2, 1] + 5 s[3, 1, 1, 1] + 2 s[2, 2, 1, 1]
(330000) s[1,1]*s[4] + (321000) s[1]^3*s[3] + (222000) s[1,1,1]*s[3] + (311100) s[3]*s[2]*s[1] + (221100) 2*s[2]^2*s[1,1]
+ (211110) s[1]^2*s[3,1] + (111111) s[3,3]

>
> for i from 1 to 6 do
>   tos(toSnFrob(s[4,1,1],i));
> od;

      0

      0

      s[3] + 3 s[2, 1] + 3 s[1, 1, 1]
(411) s[1]*s[1,1] + (321) s[1]^3 + (222) s[1,1,1]

      s[4] + 7 s[3, 1] + 5 s[2, 2] + 11 s[2, 1, 1] + 5 s[1, 1, 1, 1]
(4110) s[1]^2*s[1,1] + (3210) s[1]^4 + (2220) s[1,1,1]*s[1] + (3111) s[1,1]*s[1]^2 + (2211) s[1,1]*s[2] + s[1]^2*s[1,1]

      s[5] + 8 s[4, 1] + 10 s[3, 2] + 16 s[3, 1, 1] + 11 s[2, 2, 1] + 11 s[2, 1, 1, 1] + 2 s[1, 1, 1, 1, 1]
(41100) s[1]*s[1,1]*s[2] + (32100) s[1]^3*s[2] + (22200) s[1,1,1]*s[2] + (31110) s[1,1]*s[1]^3
+ (22110) s[1,1]*s[2]*s[1] + s[1]^3*s[1,1] + (21111) s[2]*s[1,1]*s[1]

s[6] + 8 s[5, 1] + 11 s[4, 2] + 18 s[4, 1, 1] + 5 s[3, 3] + 17 s[3, 2, 1] + 13 s[3, 1, 1, 1] + 3 s[2, 2, 2] + 7 s[2, 2, 1, 1]
+ 3 s[2, 1, 1, 1, 1]
(411000) s[1]*s[1,1]*s[3] + (321000) s[1]^3*s[3] + (222000) s[1,1,1]*s[3] + (311100) s[1,1]*s[1]^2*s[2]
+ (221100) s[1,1]*s[2]^2 + s[1]^2*s[2]*s[1,1] + (211110) s[1]*s[2]*s[1,1] + (111111) s[4,1,1]

> for i from 1 to 6 do
>   tos(toSnFrob(s[3,2,1],i));
> od;

      0

      0

      s[3] + 3 s[2, 1] + s[1, 1, 1]
(321) s[1]^3 + (222) s[2,1]

      2 s[4] + 8 s[3, 1] + 6 s[2, 2] + 8 s[2, 1, 1] + 2 s[1, 1, 1, 1]
(3210) s[1]^4 + (2220) s[2,1]*s[1] + (3111) s[2,1]*s[1] + (2211) s[1]^4

      2 s[5] + 10 s[4, 1] + 13 s[3, 2] + 14 s[3, 1, 1] + 12 s[2, 2, 1] + 7 s[2, 1, 1, 1] + s[1, 1, 1, 1, 1]
(32100) s[1]^3*s[2] + (22200) s[2,1]*s[2] + (31110) s[2,1]*s[1]*s[1] + (22110) s[1]^5 + (21111) s[2,1]*s[1]^2

2 s[6] + 10 s[5, 1] + 15 s[4, 2] + 15 s[4, 1, 1] + 7 s[3, 3] + 21 s[3, 2, 1] + 9 s[3, 1, 1, 1] + 5 s[2, 2, 2] + 7 s[2, 2, 1, 1]
+ 2 s[2, 1, 1, 1, 1]
(321000) s[1]^3*s[3] + (222000) s[2,1]*s[3] + (311100) s[2,1]*s[2]*s[1] + (221100) s[1]^4*s[2] + (211110) s[2,1]*s[1]^3 + (111111) s[3,2,

> for i from 1 to 6 do
>   tos(toSnFrob(s[2,2,2],i));
> od;

      0

      0

      s[3]
(222) s[3]

      2 s[4] + 2 s[3, 1] + s[2, 2]
(2220) s[3]*s[1] + (2211) s[2]^2

      2 s[5] + 3 s[4, 1] + 4 s[3, 2] + s[3, 1, 1] + 2 s[2, 2, 1]
(22200) s[3]*s[2] + (22110) s[2]^2*s[1] + (21111) s[1]*s[2,2]

      2 s[6] + 3 s[5, 1] + 5 s[4, 2] + s[4, 1, 1] + 3 s[3, 3] + 4 s[3, 2, 1] + 3 s[2, 2, 2] + s[2, 2, 1, 1]
(222000) s[3]*s[3] + (221100) s[2]^3 + (211110) s[1]^2*s[2,2] + (111111) s[2,2,2]

> for i from 1 to 6 do
>   tos(toSnFrob(s[3,1,1,1],i));
> od;

      0

      0

      0

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                                s[2, 2] + 2 s[2, 1, 1] + 2 s[1, 1, 1, 1]
(3111) s[1,1,1]*s[1] + (2211) s[1,1]*s[1,1]

                                s[3, 2] + 3 s[3, 1, 1] + 4 s[2, 2, 1] + 6 s[2, 1, 1, 1] + 3 s[1, 1, 1, 1, 1]
(31110) s[1,1,1]*s[1]^2 + (22110) s[1,1]*s[1,1]*s[1] + (21111) s[1]^2*s[1,1,1]

                                s[4, 2] + 3 s[4, 1, 1] + 5 s[3, 2, 1] + 8 s[3, 1, 1, 1] + 2 s[2, 2, 2] + 5 s[2, 2, 1, 1] + 5 s[2, 1, 1, 1, 1] + s[1, 1, 1, 1, 1, 1]
(311100) s[1,1,1]*s[1]*s[2] + (221100) s[1,1]*s[1,1]*s[2] + (211110) s[1]^3*s[1,1,1] + (111111) s[3,1,1,1]

> for i from 1 to 6 do
>   tos(toSnFrob(s[2,2,1,1],i));
> od;

                                0

                                0

                                0

                                s[3, 1] + s[2, 1, 1]
(2211) s[1,1]*s[2]

                                s[4, 1] + s[3, 2] + 3 s[3, 1, 1] + 2 s[2, 2, 1] + 2 s[2, 1, 1, 1]
(22110) s[1,1]*s[2]*s[1] + (21111) s[1]*s[2,1,1]

                                s[5, 1] + s[4, 2] + 3 s[4, 1, 1] + s[3, 3] + 4 s[3, 2, 1] + 3 s[3, 1, 1, 1] + s[2, 2, 2] + 4 s[2, 2, 1, 1] + s[2, 1, 1, 1, 1]
(221100) s[1,1]*s[2]^2 + (211110) s[1]^2*s[2,1,1] + (111111) s[2,2,1,1]

> for i from 1 to 6 do
>   tos(toSnFrob(s[2,1,1,1,1],i));
> od;

                                0

                                0

                                0

                                0

                                s[2, 1, 1, 1, 1] + s[1, 1, 1, 1, 1]
(21111) s[1]*s[1,1,1,1]

                                s[3, 1, 1, 1, 1] + s[2, 2, 1, 1, 1] + 3 s[2, 1, 1, 1, 1, 1] + s[1, 1, 1, 1, 1, 1, 1]
(211110) s[1]^2*s[1,1,1,1,1] + (111111) s[2,1,1,1,1]

> for i from 1 to 6 do
>   tos(toSnFrob(s[1,1,1,1,1,1],i));
> od;

                                0

                                0

                                0

                                0

                                0

                                s[1, 1, 1, 1, 1, 1, 1]
(111111) s[1,1,1,1,1,1]

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