Exercise 1.5 A sort hack

```
{a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z#}::Indices(position=independent).

foo := A_{a} A^{a} + A^{a} A_{a}.  # cdb (ex-0105.100,foo)

sort_product (foo)  # cdb (ex-0105.101,foo)

substitute (foo, $A^{a} -> Z^{a}$)  # cdb (ex-0105.102,foo)

sort_product (foo)  # cdb (ex-0105.103,foo)

substitute (foo, $Z^{a} -> A^{a}$)  # cdb (ex-0105.104,foo)
```

```
\begin{split} &\text{ex-0105.100} := A_a A^a + A^a A_a \\ &\text{ex-0105.101} := 2A_a A^a \\ &\text{ex-0105.102} := 2A_a Z^a \\ &\text{ex-0105.103} := 2A_a Z^a \\ &\text{ex-0105.104} := 2A_a A^a \end{split}
```