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crystlst.pl

```
#!/usr/bin/perl

foreach $n (1..6){
  open(IN,"<data".$n);
  open(OUT,">cryst".$n.".gap");
  print OUT "cryst".$n.":=[\n";
  $nn=<IN>;
  foreach $i (1..$nn){
    $a=<IN>;
    @a=split(/ /,$a);
    $name=$a[0];
    $degree=$a[1];
    $symbol=$a[2];
    $order=$a[3];
    $discr=$a[4];
    open(IN2,"<dim".$degree."/dir".$symbol."/ordnung".$
$order."/".$discr."/".$name);
    $b=<IN2>;
    $ng=substr($b,2);
    foreach $j1 (1..$ng){
      $b=<IN2>;
      if($j1==1){
        print OUT "Group(\n[";
      } else {
        print OUT " [";
      }
      foreach $j2 (1..$n){
        $b=<IN2>;
        $b =~ s/^ //;
        $b =~ s/[\r\n]//g;
        $b =~ s/ $//;
        $b =~ s/ /,/g;
        print OUT "[".$b."";
        if($j2<$n){
          print OUT ",";
        } else {
          print OUT "];";
        }
      }
    }
    if($j1<$ng){
      print OUT ",\n";
    }
  }
}
```

```
    } else {
        print OUT "]"");
    }
}
close (IN2);
if($i < $nn){
    print OUT ",\n";
} else {
    print OUT "];\n";
}
}
close(OUT);
close(IN);
}
```

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