

in r str ct r nt t t t ort t c t i n s t t t
o r possi cost ort t p t c p r s Borg t t
nd d t t cco nt t t t , tr nsp r nc
nd p r t i c i p t i o n p c t i n s p s t t r t r i s
p r d d t t t o r t i c t n t s nd i n t r n t i o n t
c s s t d i s t t g t t o s t t r o t t t o b t o r t t
on org n i s t i o n t nd r i s d i c t i o n t t r s nd
c t t t n g s t o r t t p p i n g nd nd r t t p p i n g

A \mathbb{Z} -module C is a direct sum of \mathbb{Z} -modules if and only if it is a free \mathbb{Z} -module. \square

rn r, t r o d c lgo rn p nt t nt jrst c nt r c llng s