

A: Attracting Attendees

Problem author: Leonard Weininger

Problem

Given n bands and m fans and connections between them, select some of them such that:

- each band is connected to at least c fans
- each fan is connected to at least half of the bands he was initially connected to

A: Attracting Attendees

Problem author: Leonard Weininger

Problem

Given n bands and m fans and connections between them, select some of them such that:

- each band is connected to at least c fans
- each fan is connected to at least half of the bands he was initially connected to

Solution

- initially consider all bands and fans

A: Attracting Attendees

Problem author: Leonard Weininger

Problem

Given n bands and m fans and connections between them, select some of them such that:

- each band is connected to at least c fans
- each fan is connected to at least half of the bands he was initially connected to

Solution

- initially consider all bands and fans
- if a band has less than c fans left you must discard it
- if a fan has less than half of its bands remaining you must discard him

A: Attracting Attendees

Problem author: Leonard Weininger

Problem

Given n bands and m fans and connections between them, select some of them such that:

- each band is connected to at least c fans
- each fan is connected to at least half of the bands he was initially connected to

Solution

- initially consider all bands and fans
- if a band has less than c fans left you must discard it
- if a fan has less than half of its bands remaining you must discard him
- if nothing must be discarded the remaining bands and fans are a valid solution

A: Attracting Attendees

Problem author: Leonard Weininger

Problem

Given n bands and m fans and connections between them, select some of them such that:

- each band is connected to at least c fans
- each fan is connected to at least half of the bands he was initially connected to

Solution

- initially consider all bands and fans
- if a band has less than c fans left you must discard it
- if a fan has less than half of its bands remaining you must discard him
- if nothing must be discarded the remaining bands and fans are a valid solution
(this is actually the largest possible solution)