CS3243 Assignment 8

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1 (i)

(ii)

Add to cnf.

* R11:

Step 1: Reduce R11 and R1

* R12:

Step 2: Reduce R11 and R2

* R13:

Step 3: Reduce R11 and R3

* R14:

Step 4: Reduce R12 and R8

* R15:

Step 5: Reduce R15 and R2

* R16:

Step 6: Reduce R16 and R11

* R17:

Step 7: Reduce R4 and R15

* R18:

Reduce R5 and R18

* R19:

Reduce R6 and R19

* R20:

Reduce R20 and R11



There is a Contradiction when is added to the CNF, hence vertex 1 must be part of the vertex cover.