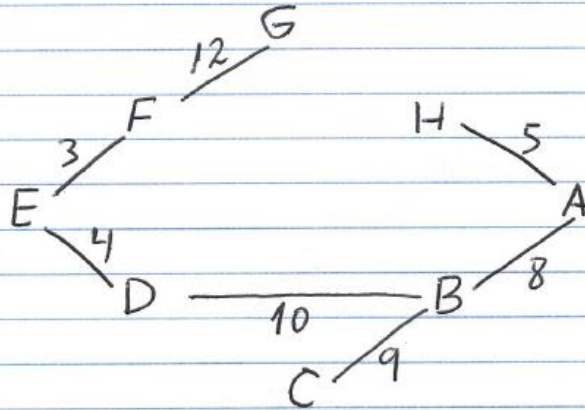


Resolução do 1º teste-Novembro 2021- turma 49

1.1) ordemação

$E \underset{3}{-} F$ ;  $E \underset{4}{-} D$ ;  $A \underset{5}{-} H$ ;  $D \underset{7}{-} F$ ;  $A \underset{8}{-} B$ ;  $B \underset{9}{-} C$

$B \underset{10}{-} D$ ;  $C \underset{11}{-} D$ ;  $F \underset{12}{-} G$ ;  $B \underset{12}{-} H$ ;  $G \underset{15}{-} H$ ;  $B \underset{18}{-} F$ ;  $F \underset{20}{-} H$



TOTAL:  $3 + 4 + 5 + 8 + 9 + 10 + 12 = 51$

1.2.1)

$A \underset{5}{-} H \underset{12}{-} B \underset{9}{-} C \underset{11}{-} D \underset{4}{-} E \underset{3}{-} F \underset{15}{-} G$  NÃO DA'

$B \underset{8}{-} A \underset{5}{-} H \underset{15}{-} G \underset{12}{-} F \underset{3}{-} E \underset{4}{-} D \underset{11}{-} C \underset{9}{-} B$  TOTAL: 67

$C \underset{9}{-} B \underset{8}{-} A \underset{5}{-} H \underset{15}{-} G \underset{12}{-} F \underset{3}{-} E \underset{4}{-} D \underset{11}{-} C$  TOTAL: 67

$D \underset{4}{-} E \underset{3}{-} F \underset{12}{-} G \underset{15}{-} H \underset{5}{-} A \underset{8}{-} B \underset{9}{-} C \underset{11}{-} D$  TOTAL: 67

$E \underset{3}{-} F \underset{7}{-} D \underset{10}{-} B \underset{8}{-} A \underset{5}{-} H \underset{15}{-} G$  NÃO DA'

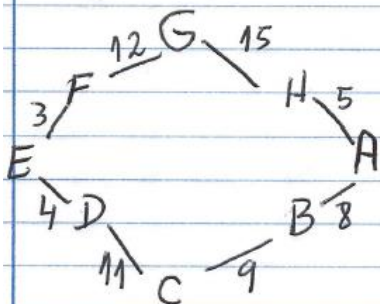
$F \underset{3}{-} E \underset{4}{-} D \underset{10}{-} B \underset{8}{-} A \underset{5}{-} H \underset{15}{-} G$  NÃO DA'

G - F - E - D - B - A - H NÃO CA  
 12 3 4 10 8 5

H - A - B - C - D - E - F - G - H TOTAL  
 5 8 9 11 4 3 12 15 67

As melhores soluções são as iniciadas em B, C, D, H

1.2.2) Usamos a ordenação apresentada em 1.1

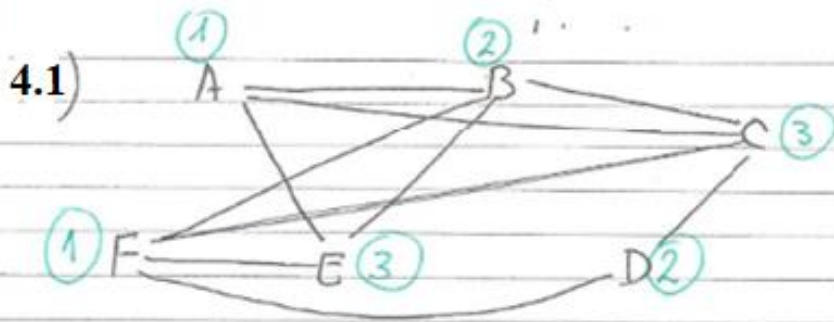


A B C D E F G H A

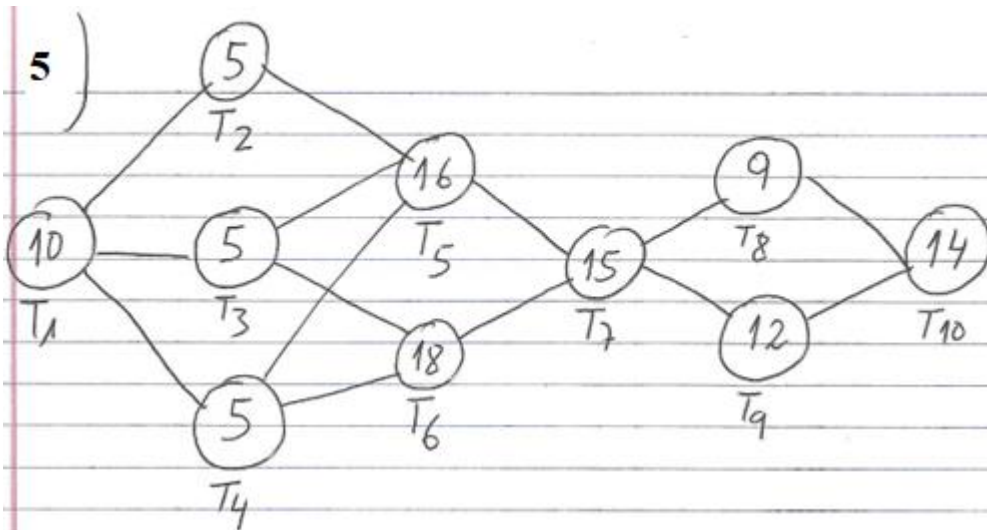
TOTAL: 67

$$2) \frac{66 \times 65}{2} = 2145$$

3) SIM. Exemplo



- 4.2)
- 1 - AF
  - 2 - BD
  - 3 - CE



$$T_7 + T_9 + T_{10} = 41 \Leftrightarrow T_7 + \underbrace{T_9 + 3}_{T_7} + \underbrace{T_{10} + 1}_{T_7} = 45$$

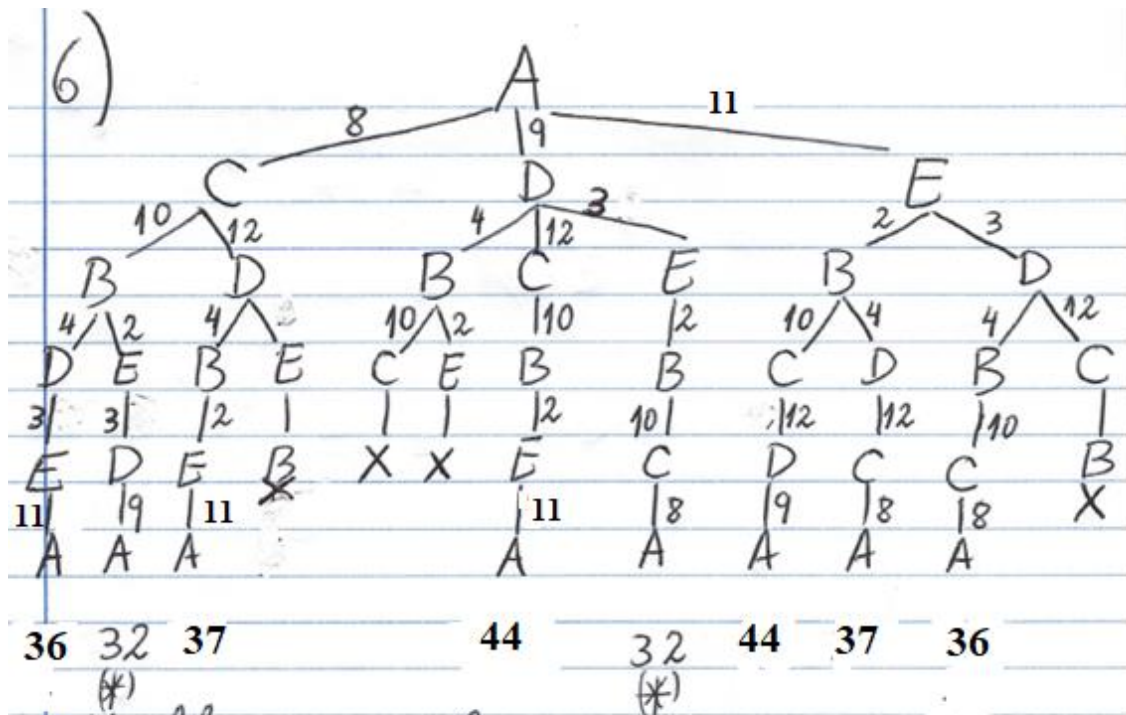
$$\text{Logo } 3T_7 = 45 \Leftrightarrow \boxed{T_7 = 15} \quad \boxed{T_9 = 12} \quad \boxed{T_{10} = 14}$$

$$\boxed{T_8 = 9}$$

Come  $T_1 + T_4 + T_6 + T_7 + T_9 + T_{10} = 74$ , e in  $\bar{A}_0$ :

$$10 + 5 + T_6 + 15 + 12 + 14 = 74 \text{ logo: } \boxed{T_6 = 18}$$

$$\boxed{T_5 = 16}$$



Melhores soluções: (\*)

ACBEDA-32 ; ADEBEA-32