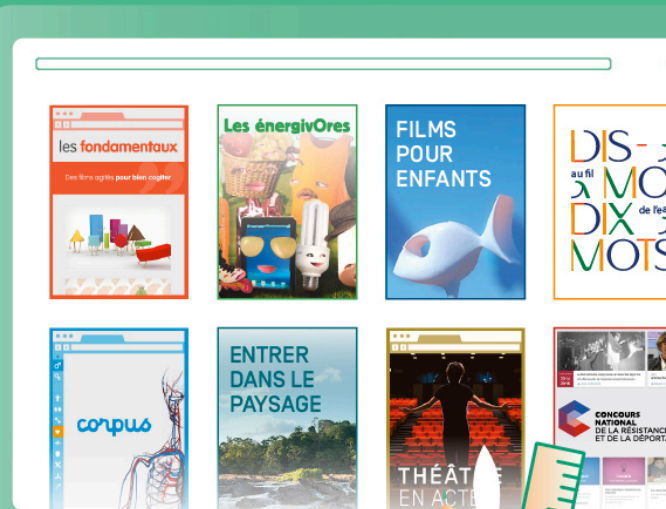


SE FORMER



CS Unplugged 7



Bonjour et bienvenue dans cet atelier en direct !

Pendant les activités de démonstration :

- nous vous invitons à couper caméra et micro
- vous pouvez écrire vos questions et réponses dans « conversation »

Afficher la conversation



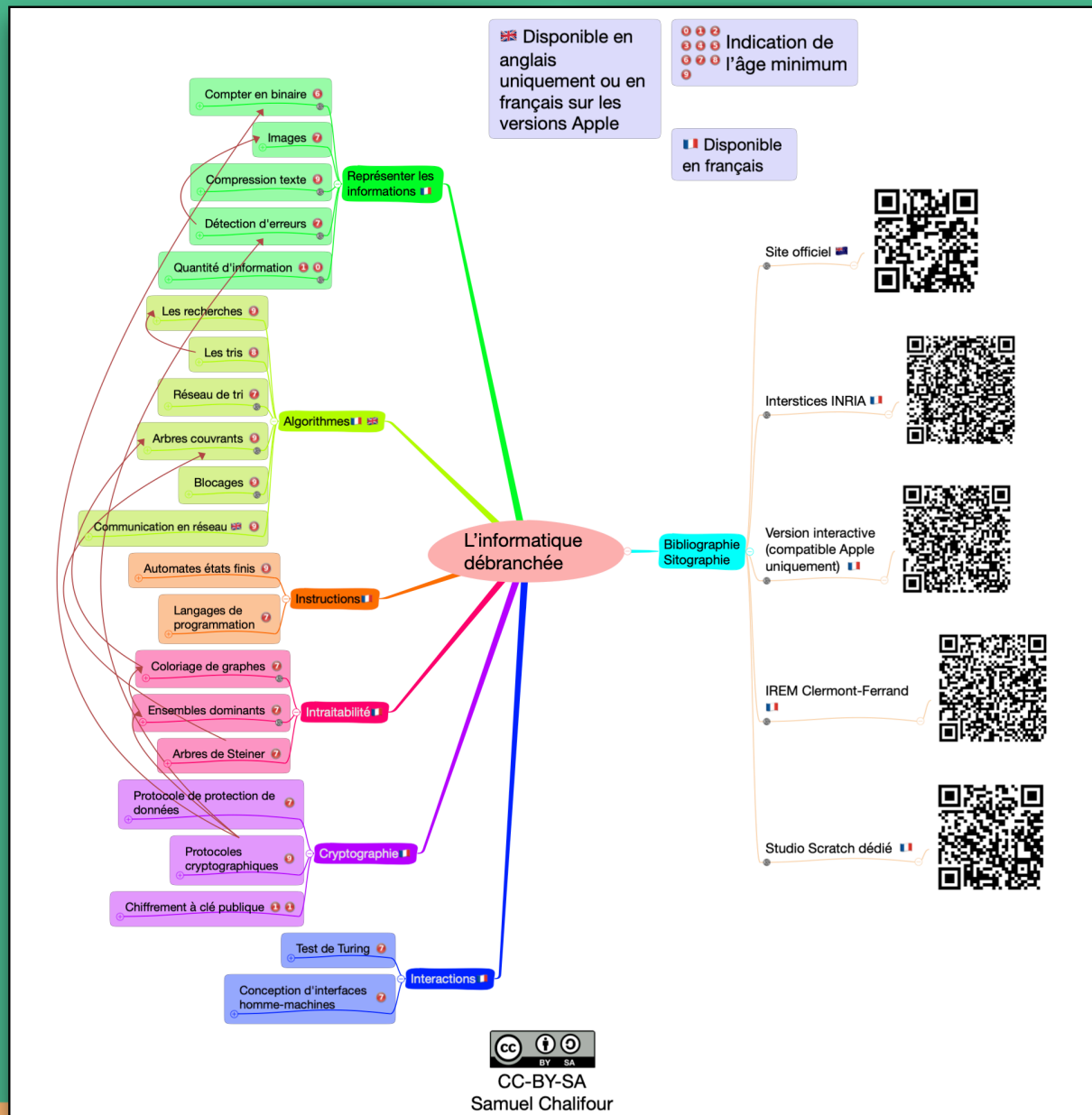
Pendant les temps d'échange :

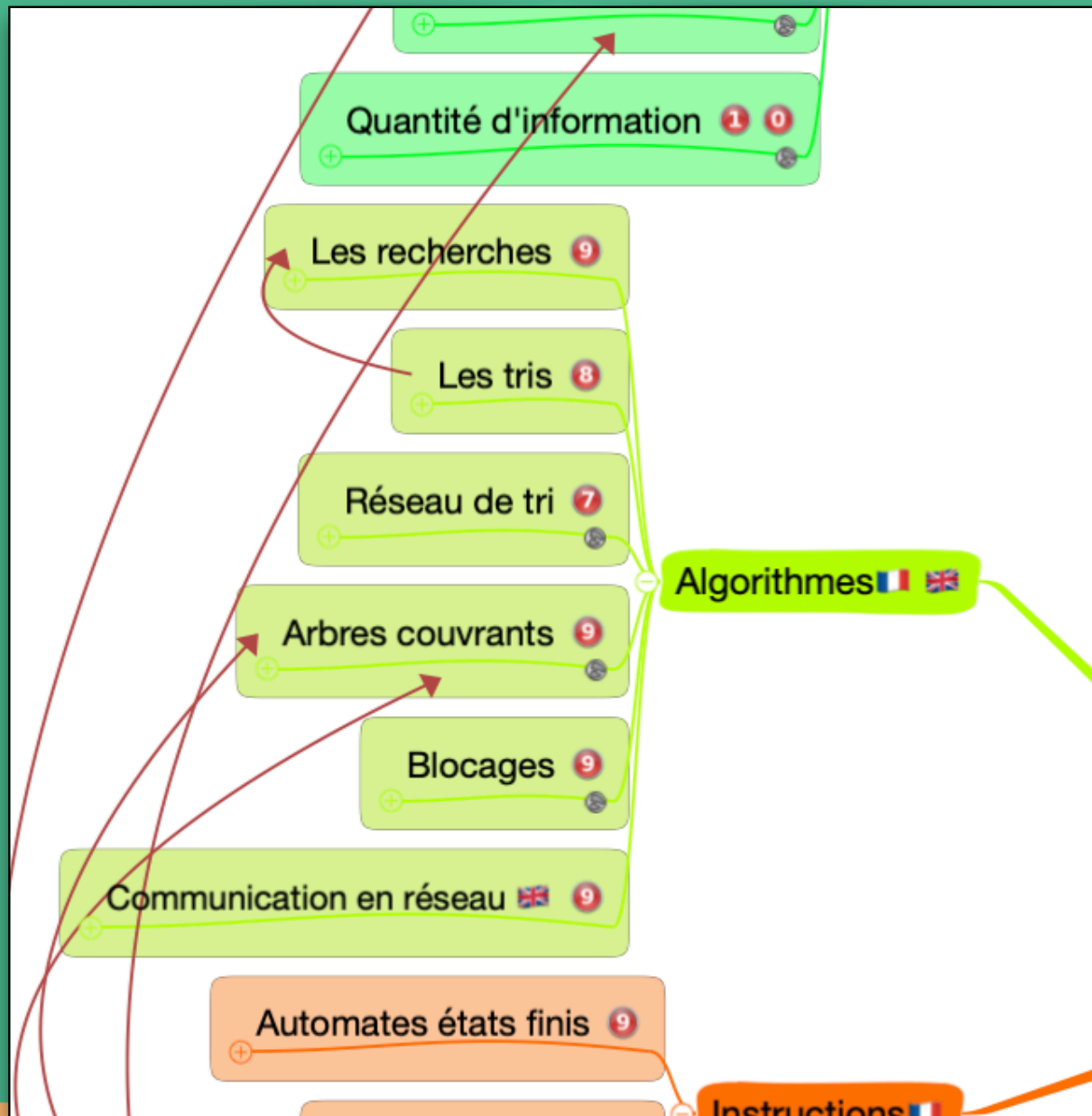
- nous répondrons aux questions posées dans la conversation
- vous pourrez prendre la parole directement en activant votre micro

Les formateurs :

- Samuel Chalifour, médiateur Atelier Canopé 88
- Guillaume Gras, médiateur Atelier Canopé 08

CANOPÉ





Algorithme

Suite finie d'instructions permettant d'effectuer une tâche.

Terminaison

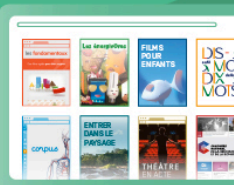
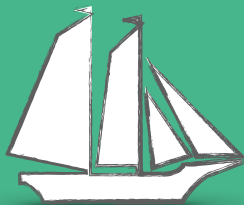
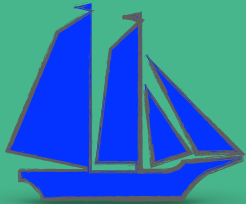
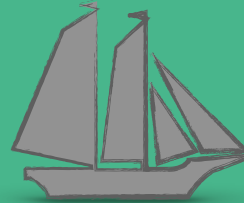
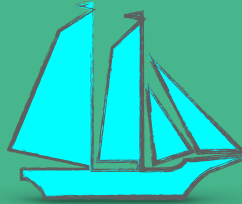
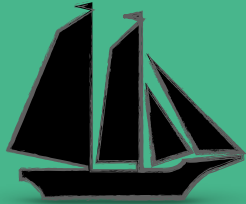
Complétude

Correction

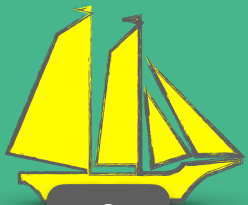


12

n







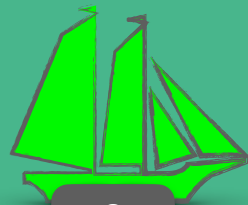
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6



7



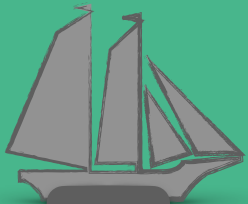
8



36

$$1+2$$

log(n)



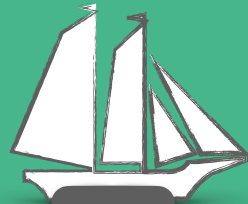
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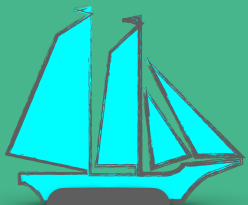
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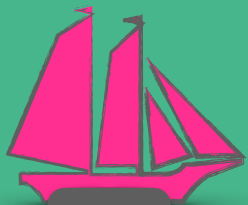
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44



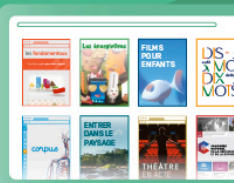
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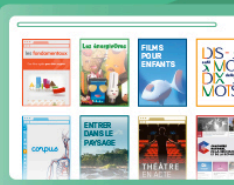
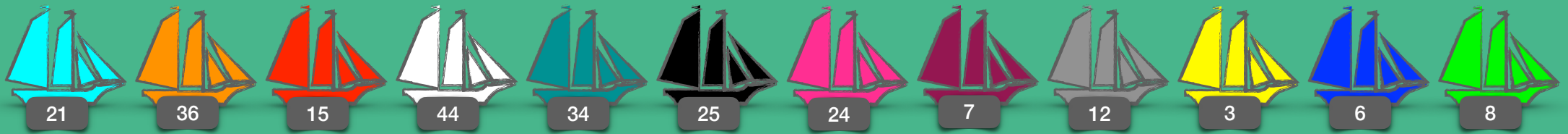


24



34



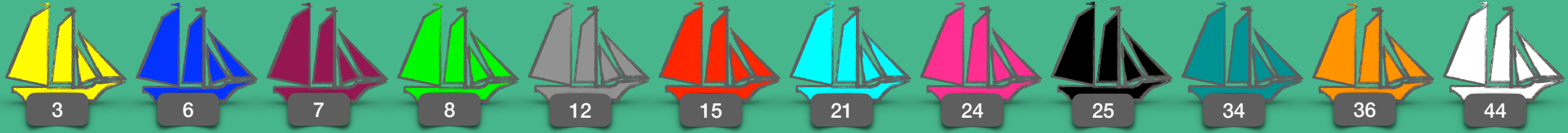


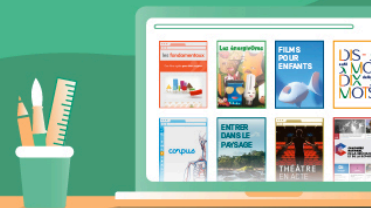
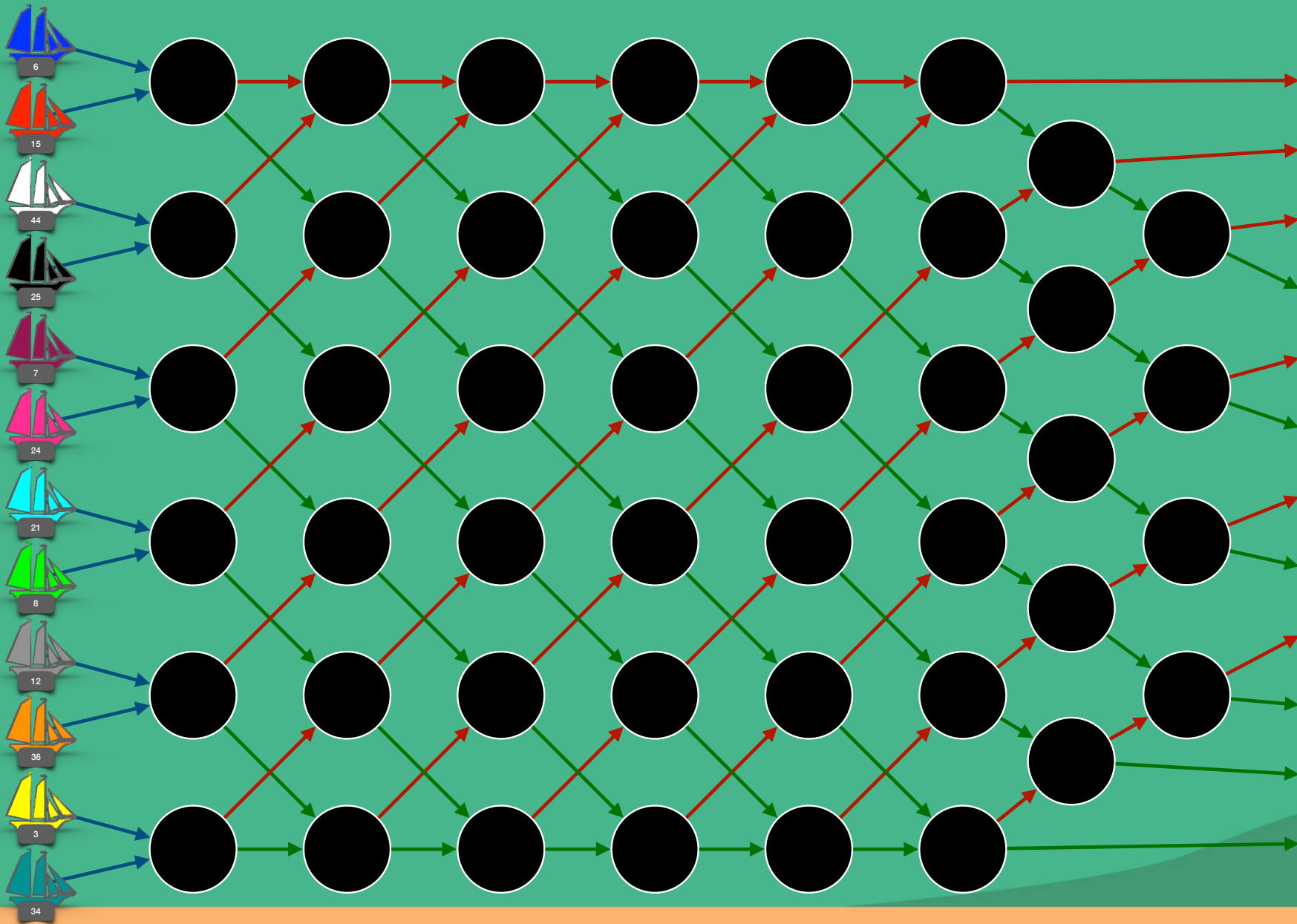
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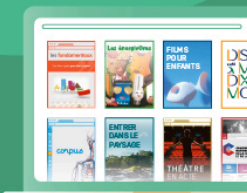
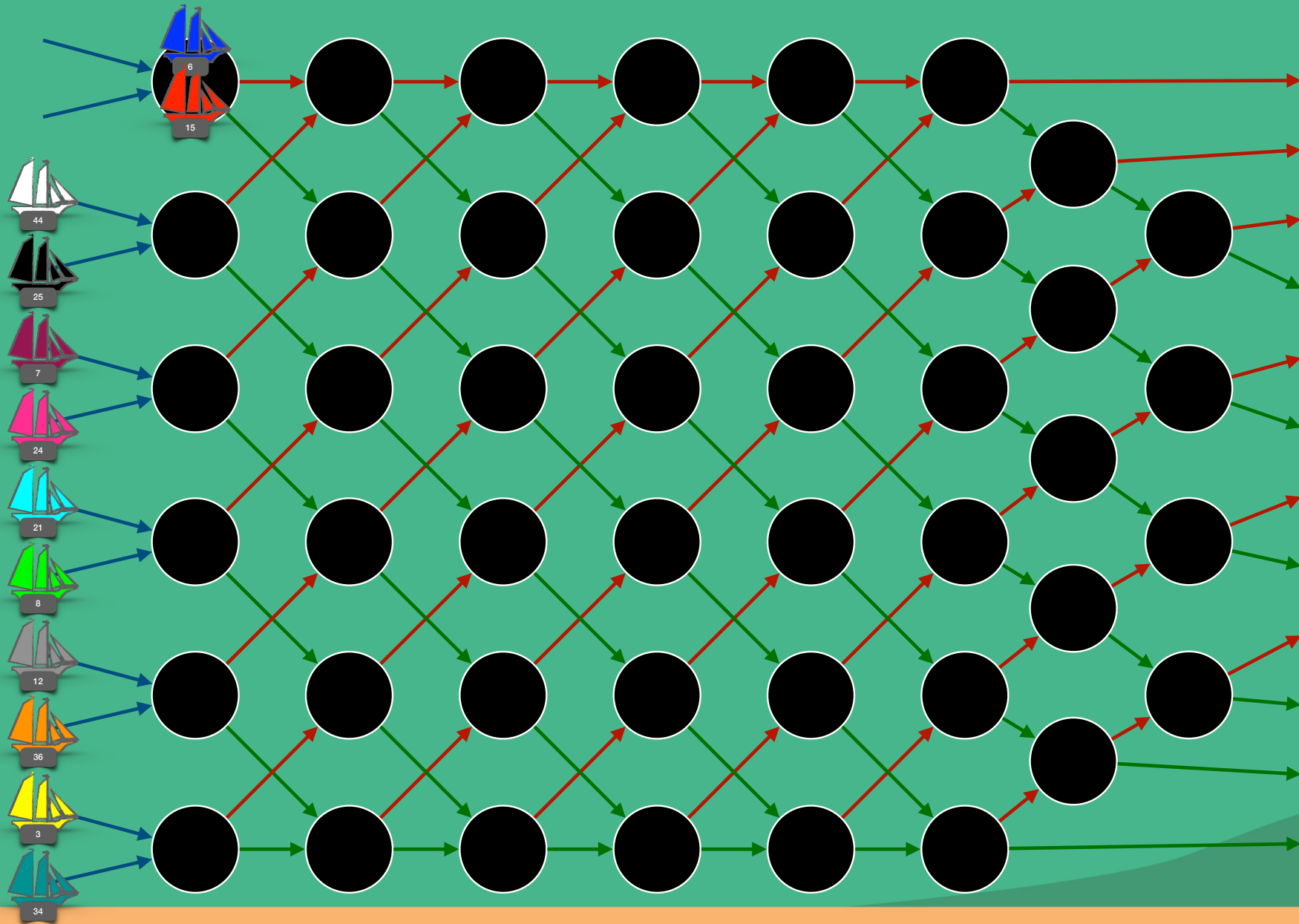
n^2

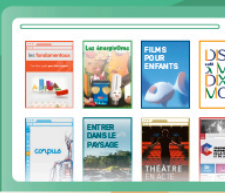
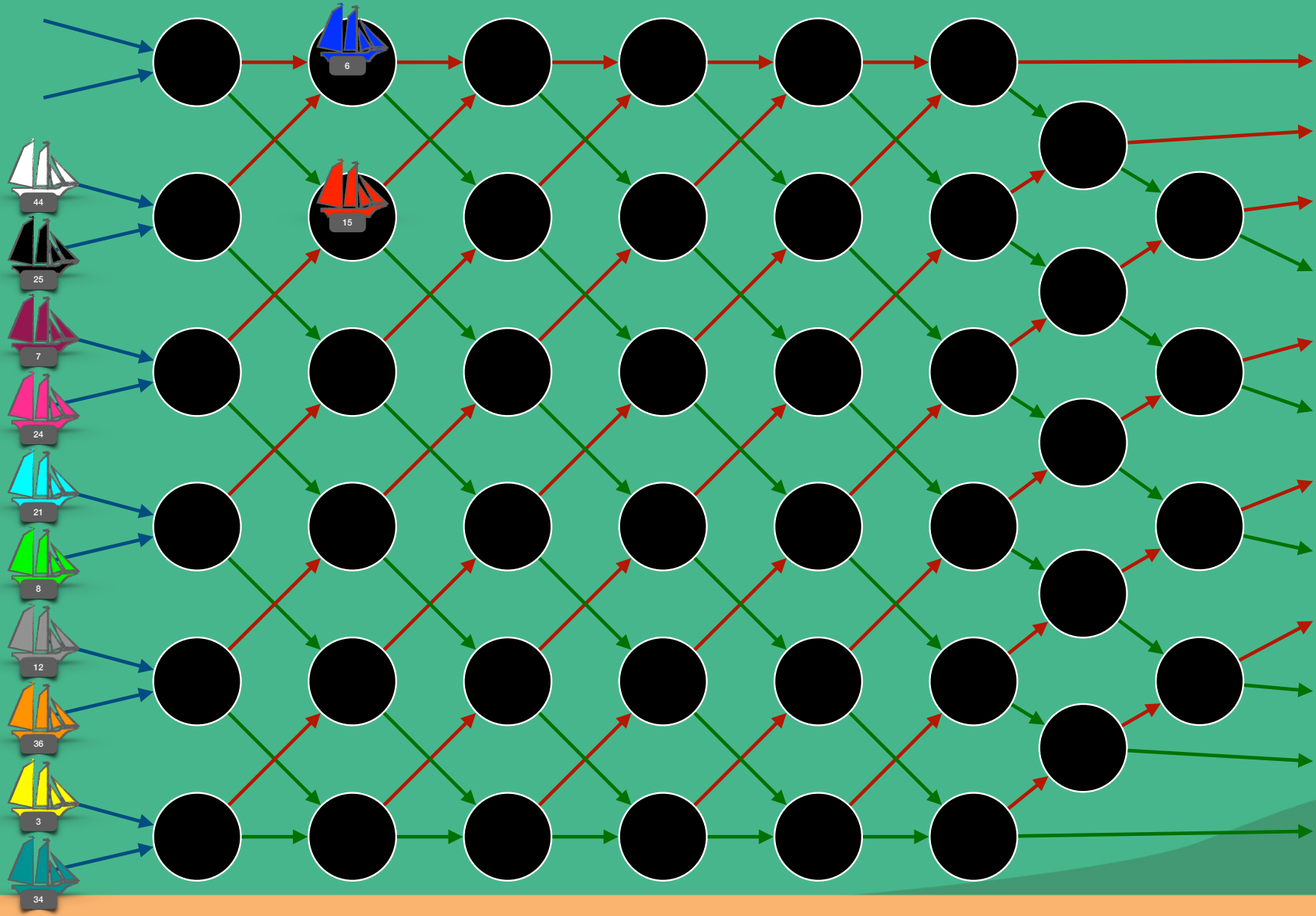
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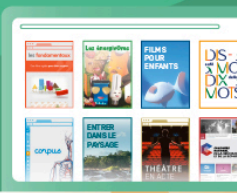
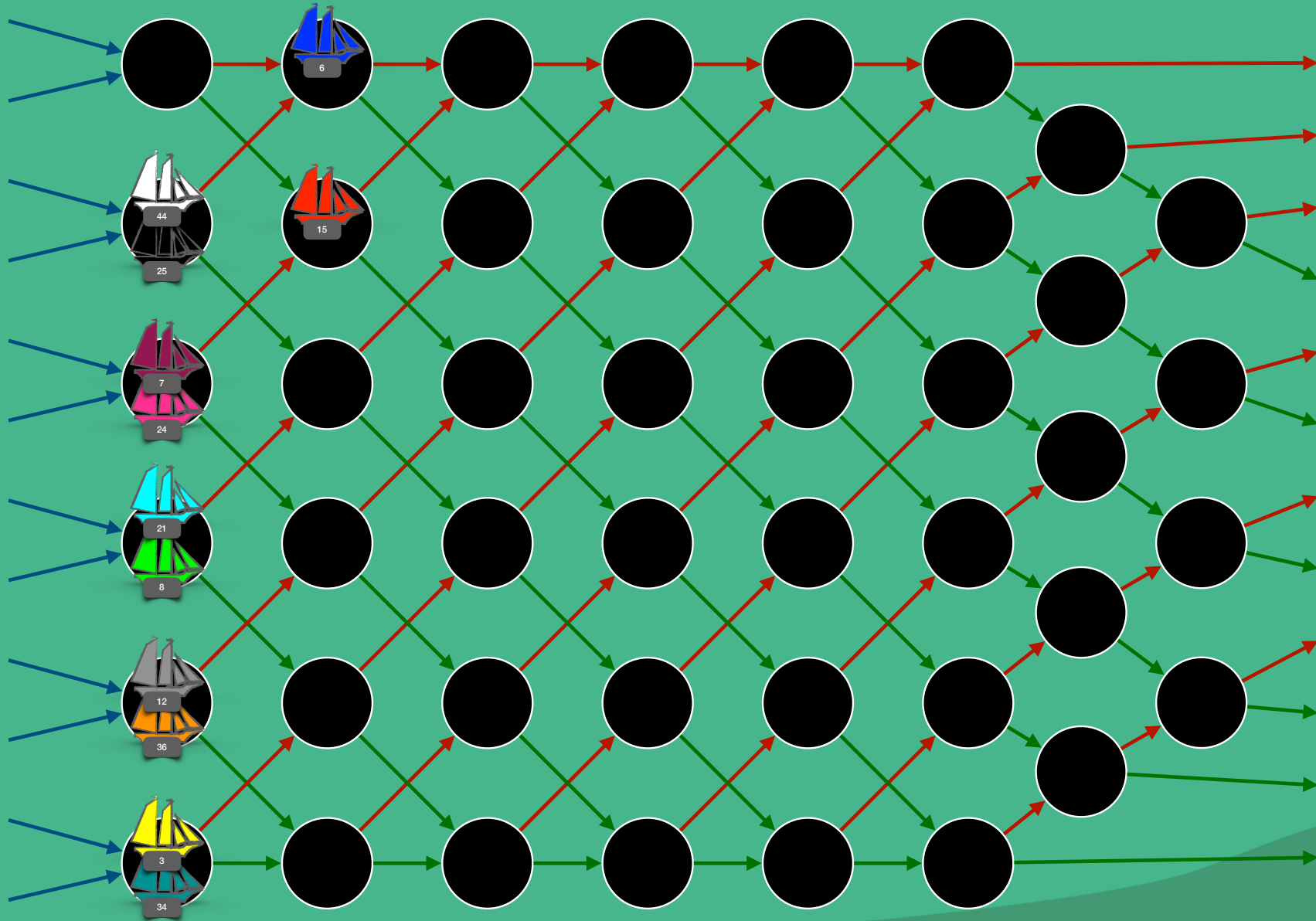
$n \times \log(n)$

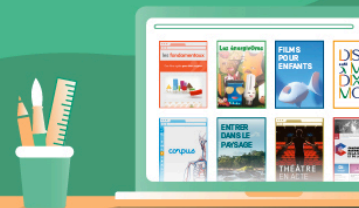
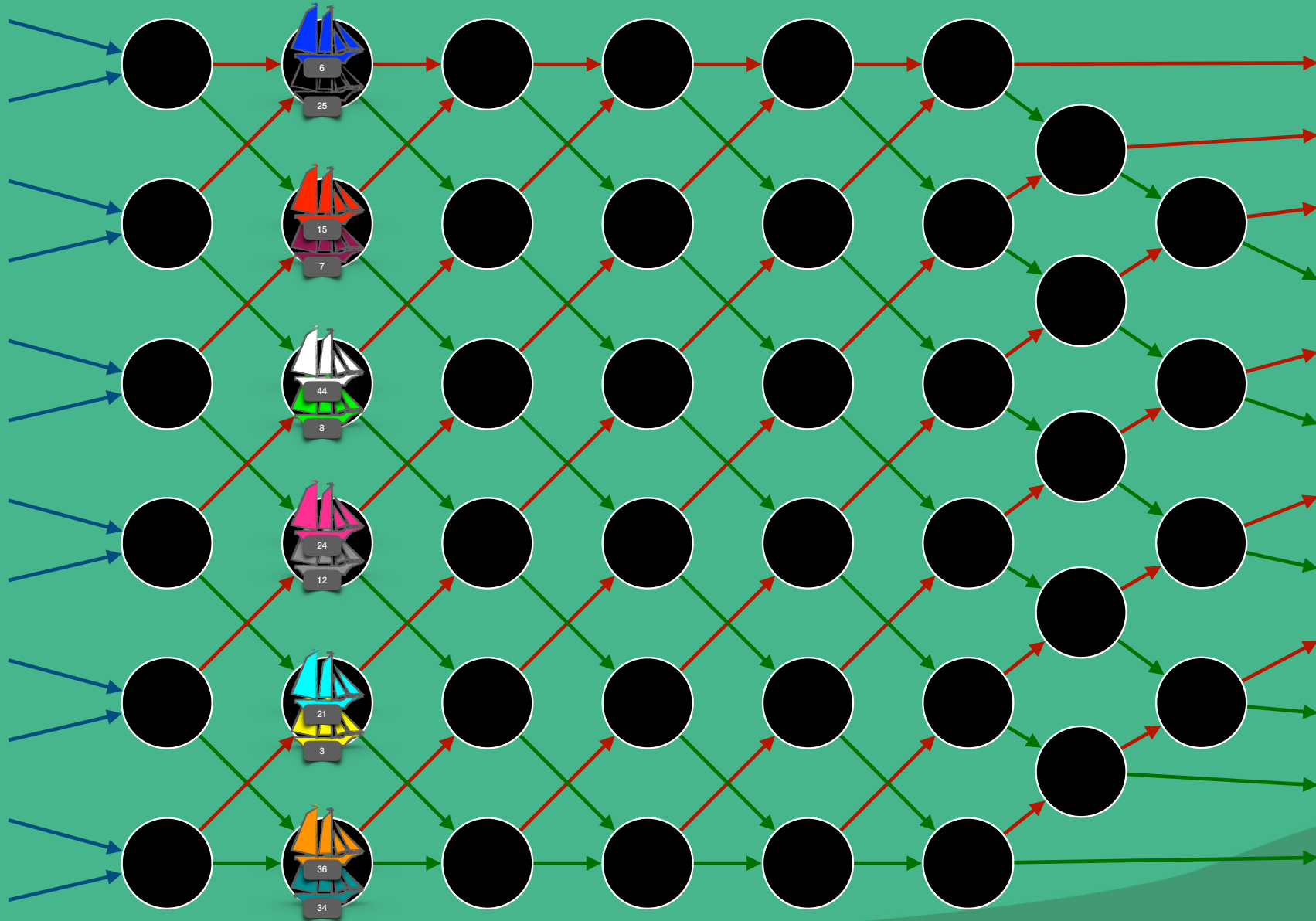


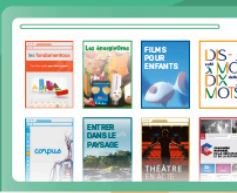
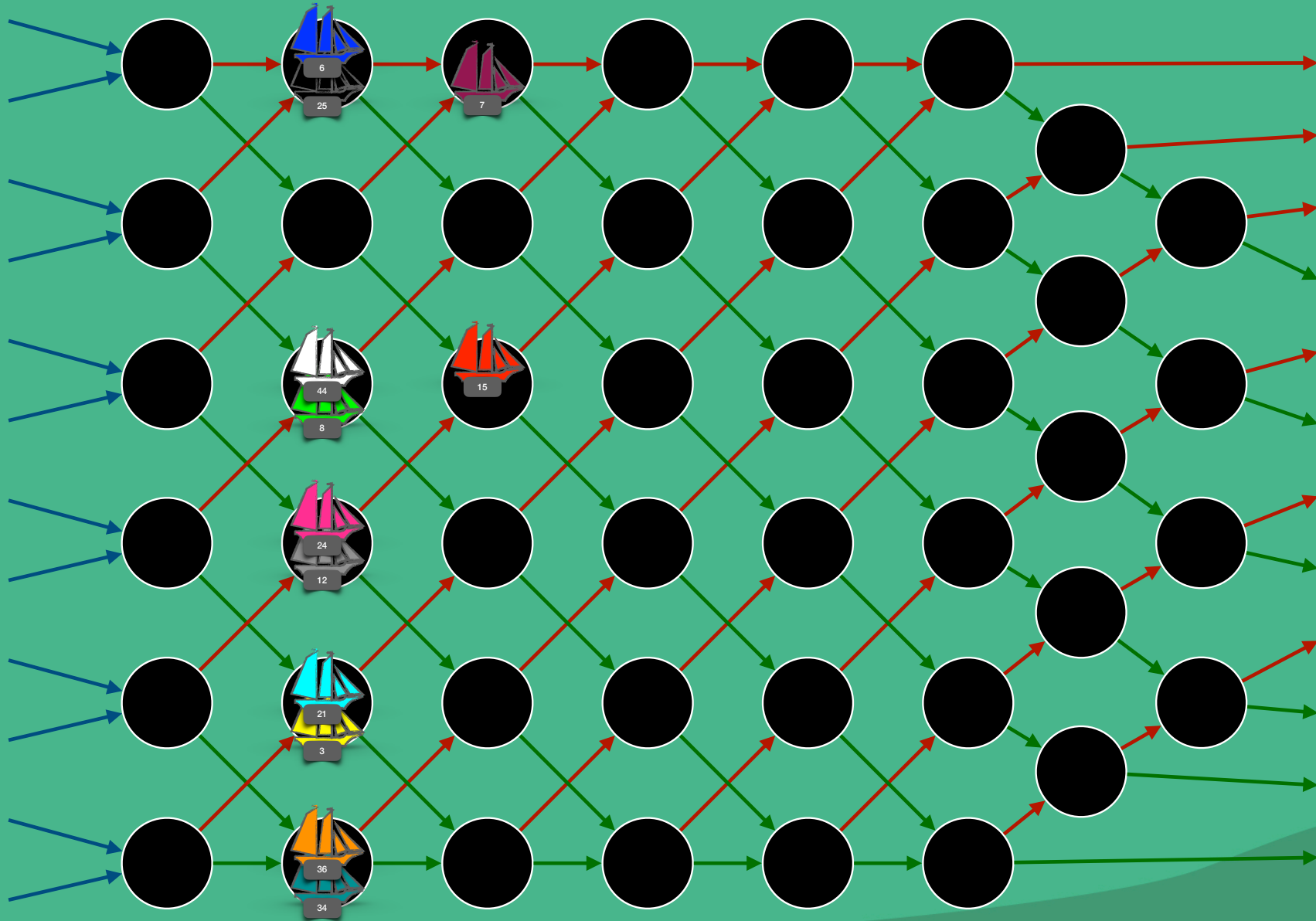


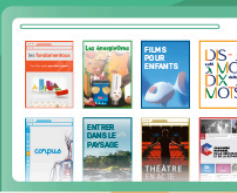
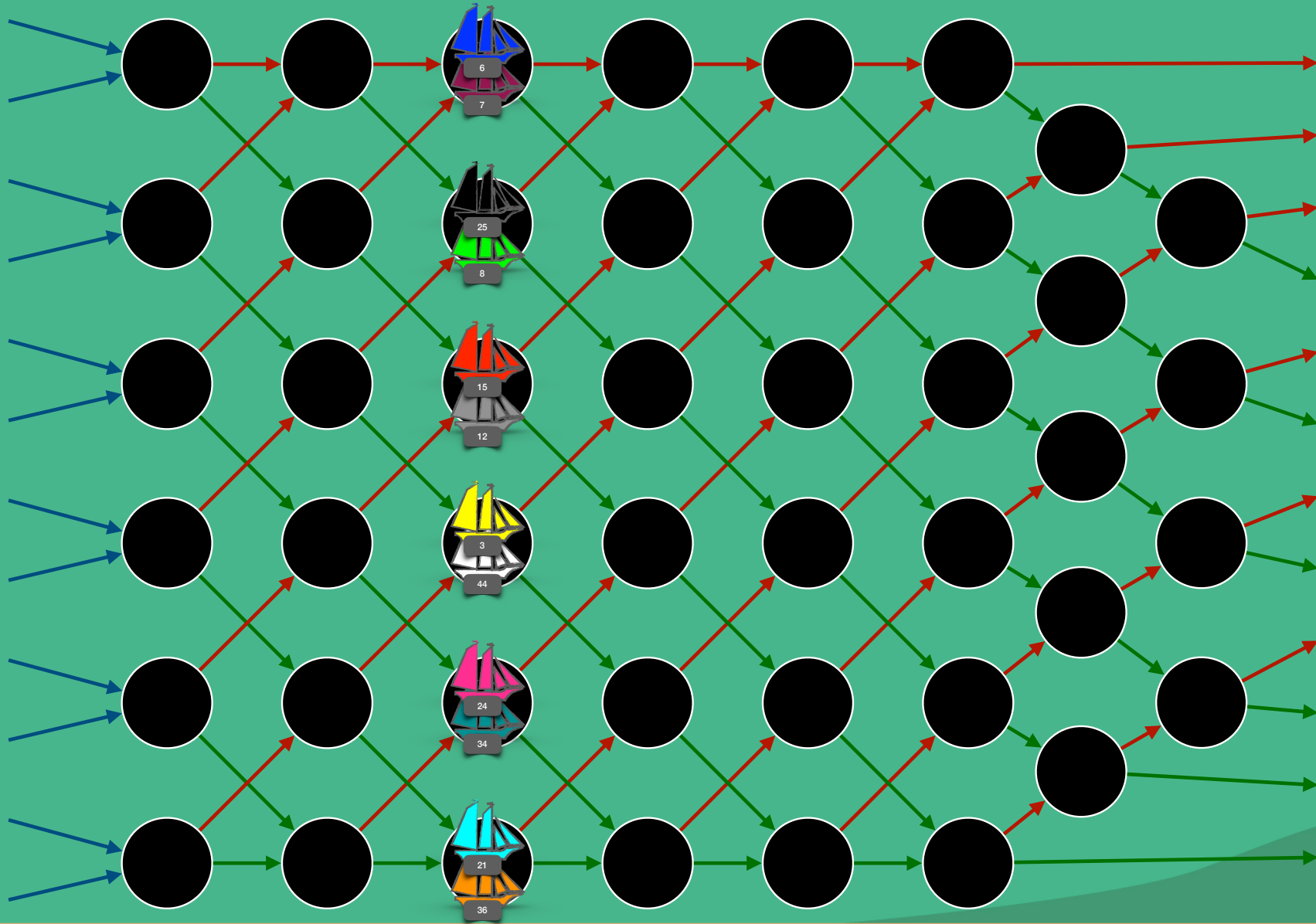


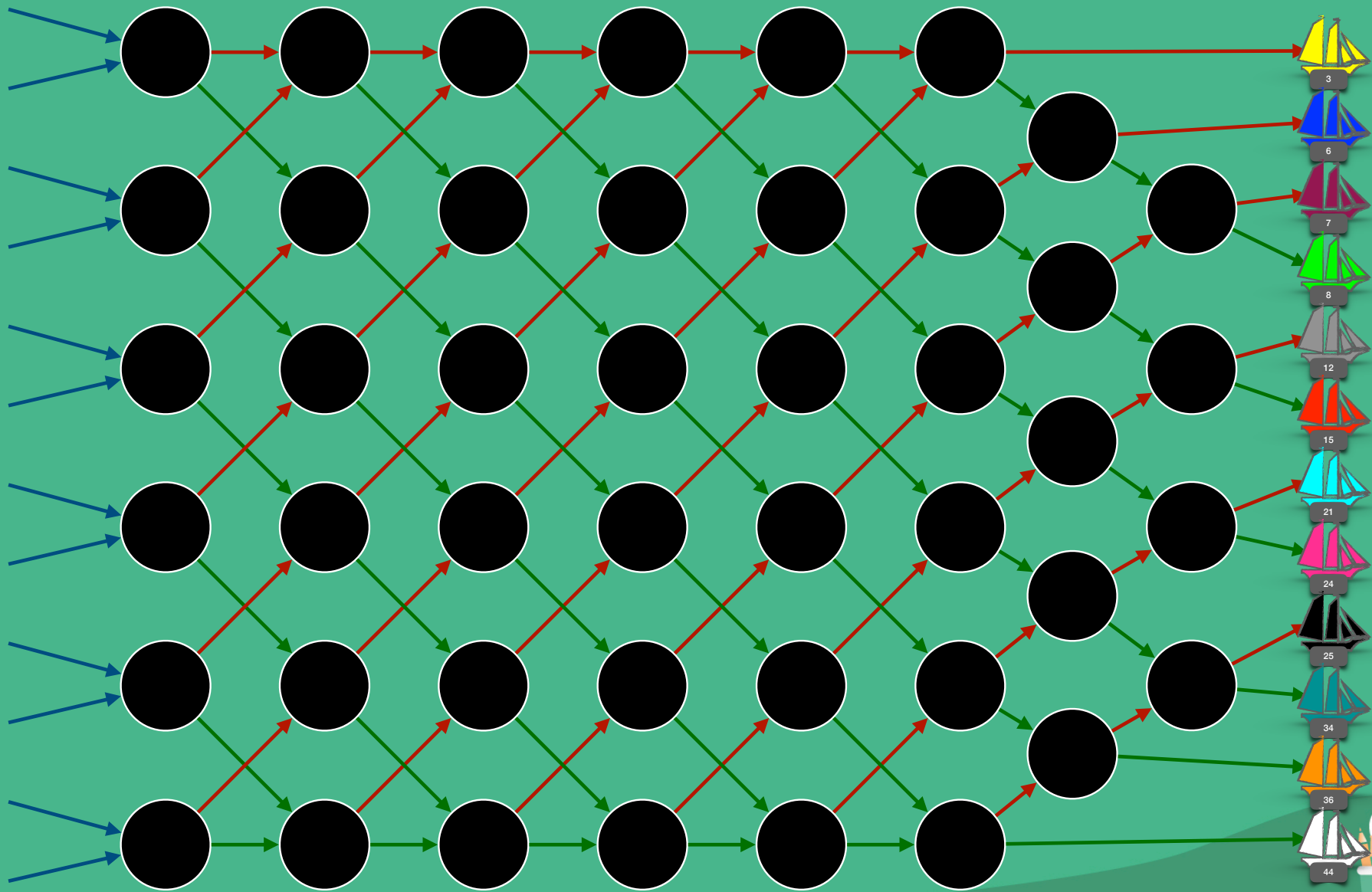


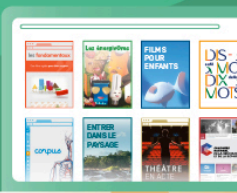
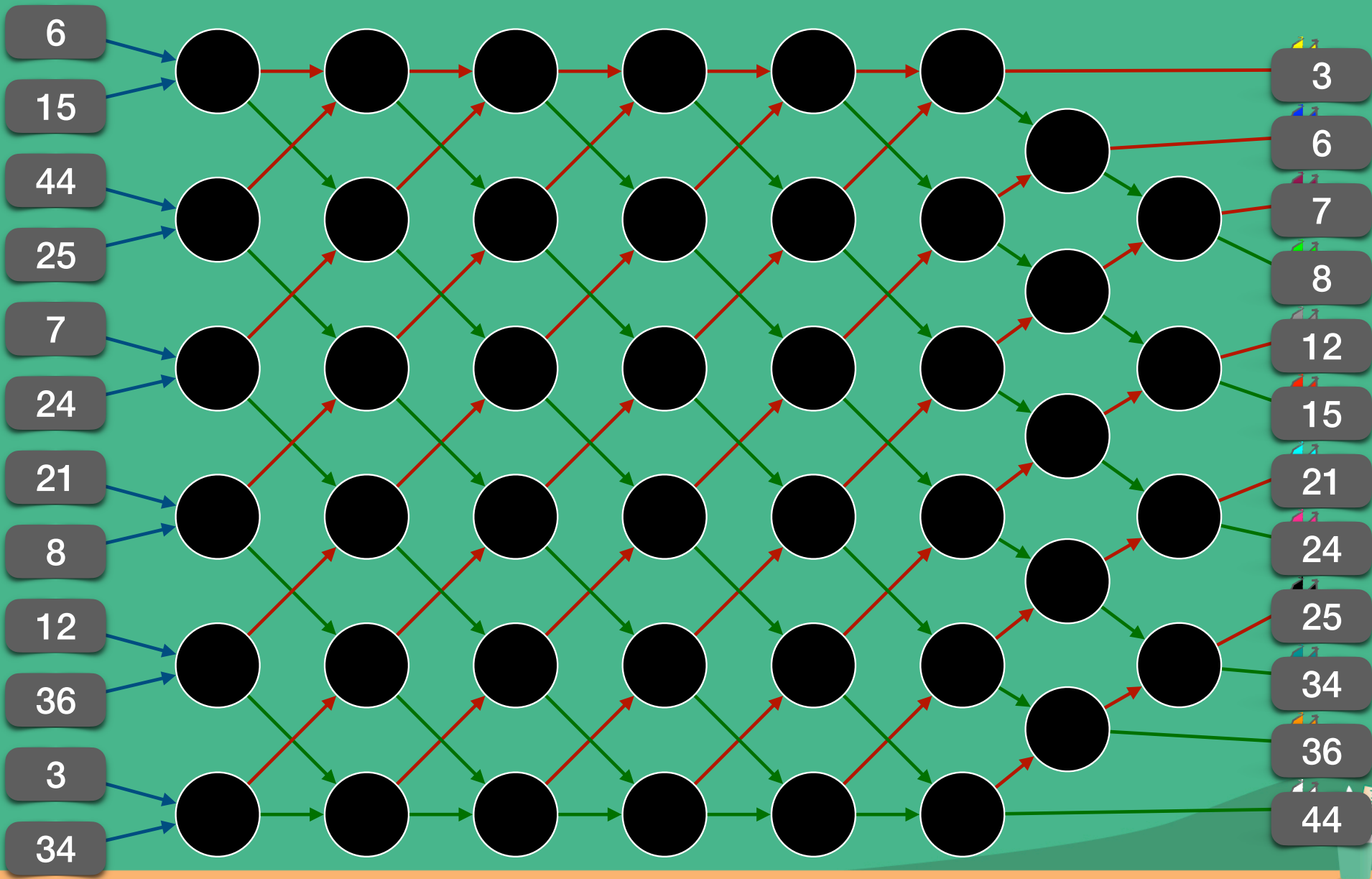




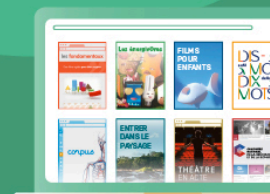


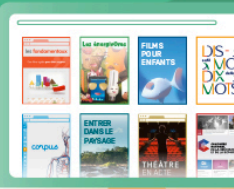
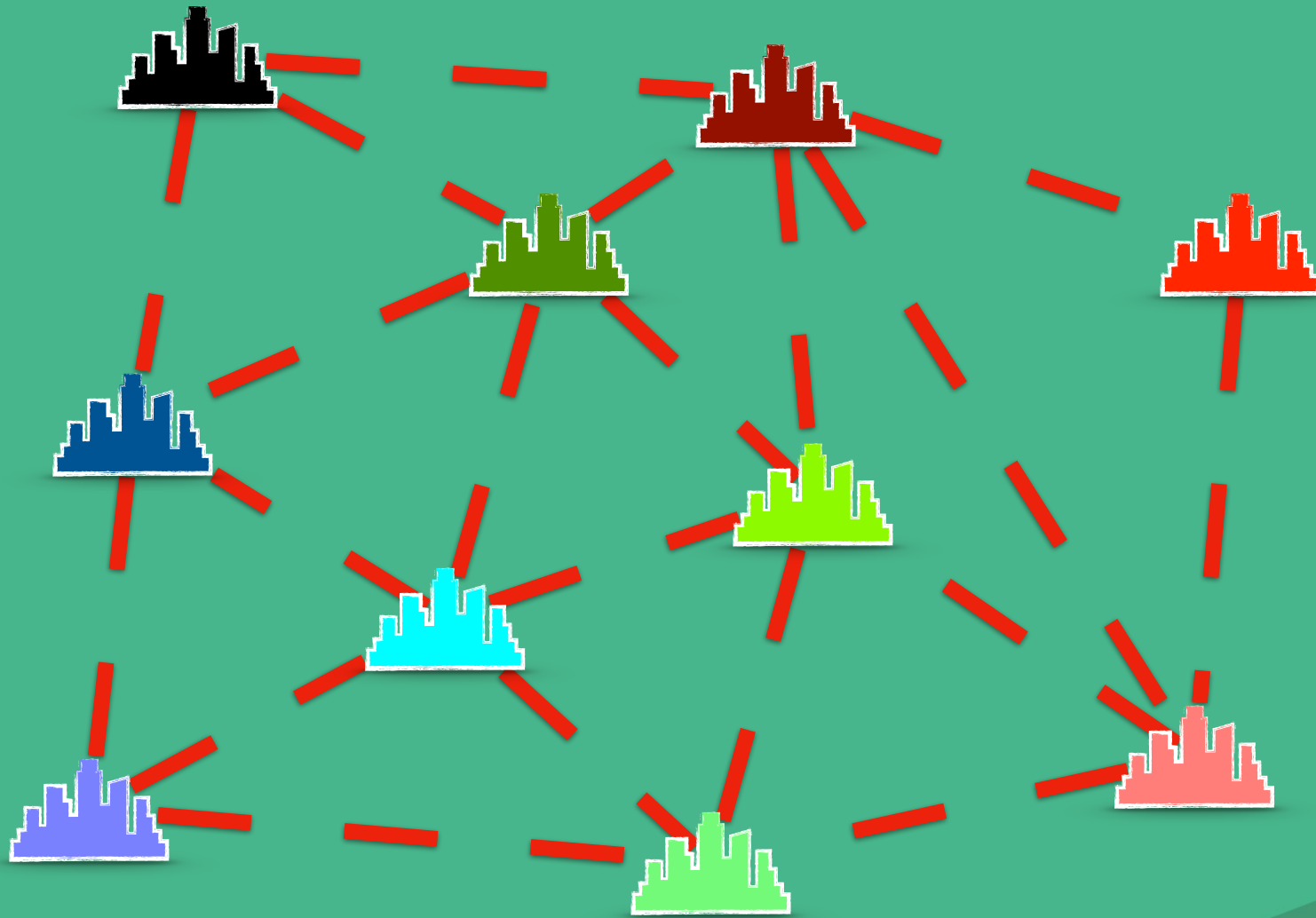




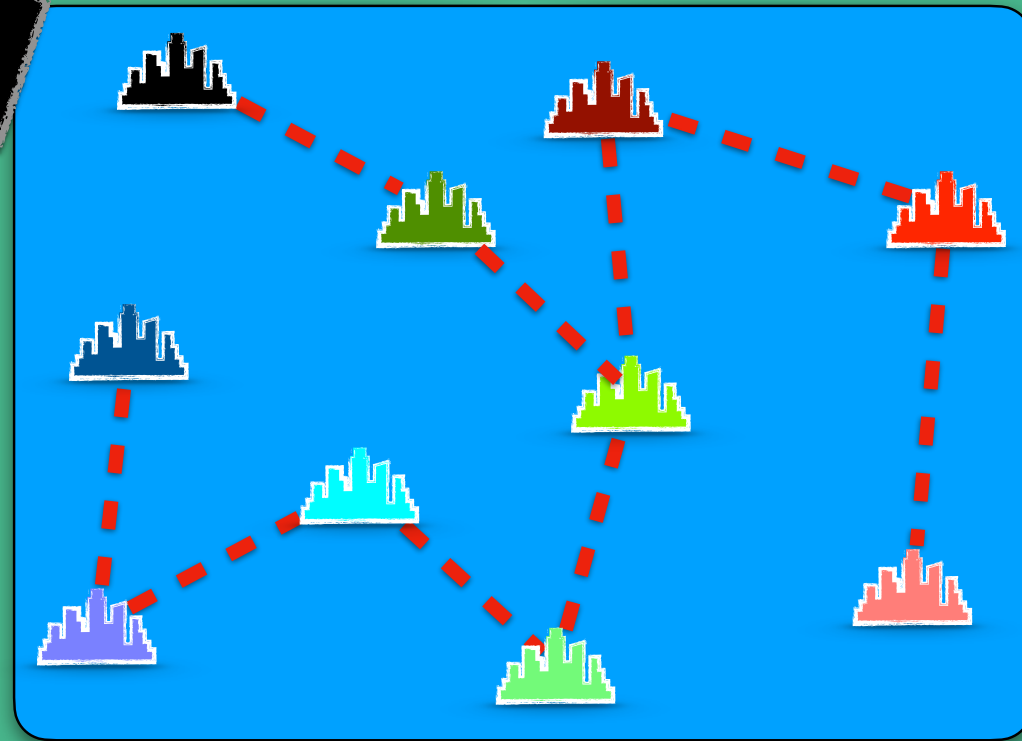
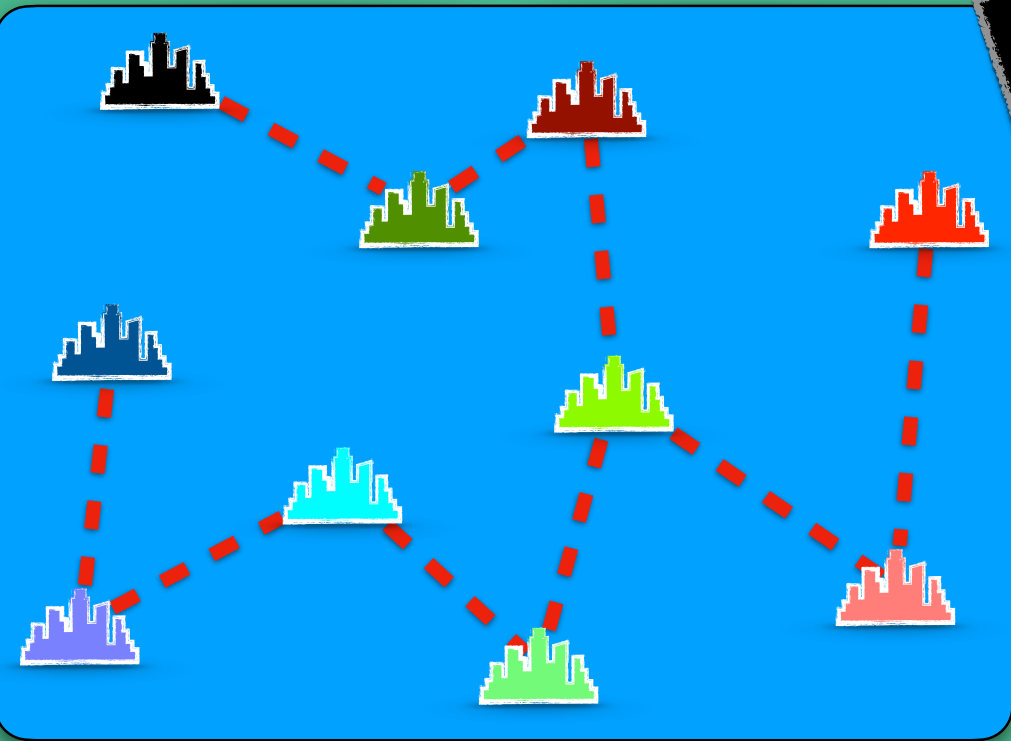


Arbres couvrants





23

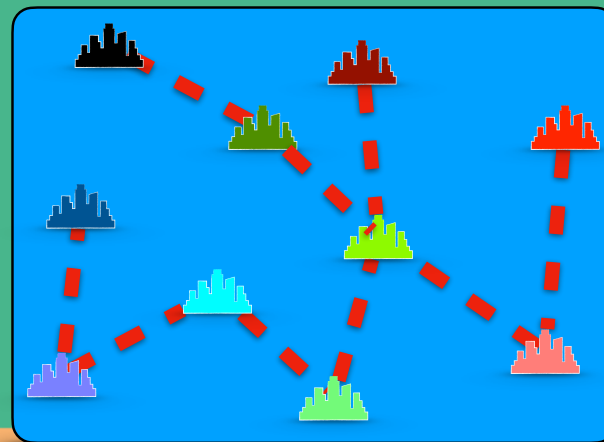


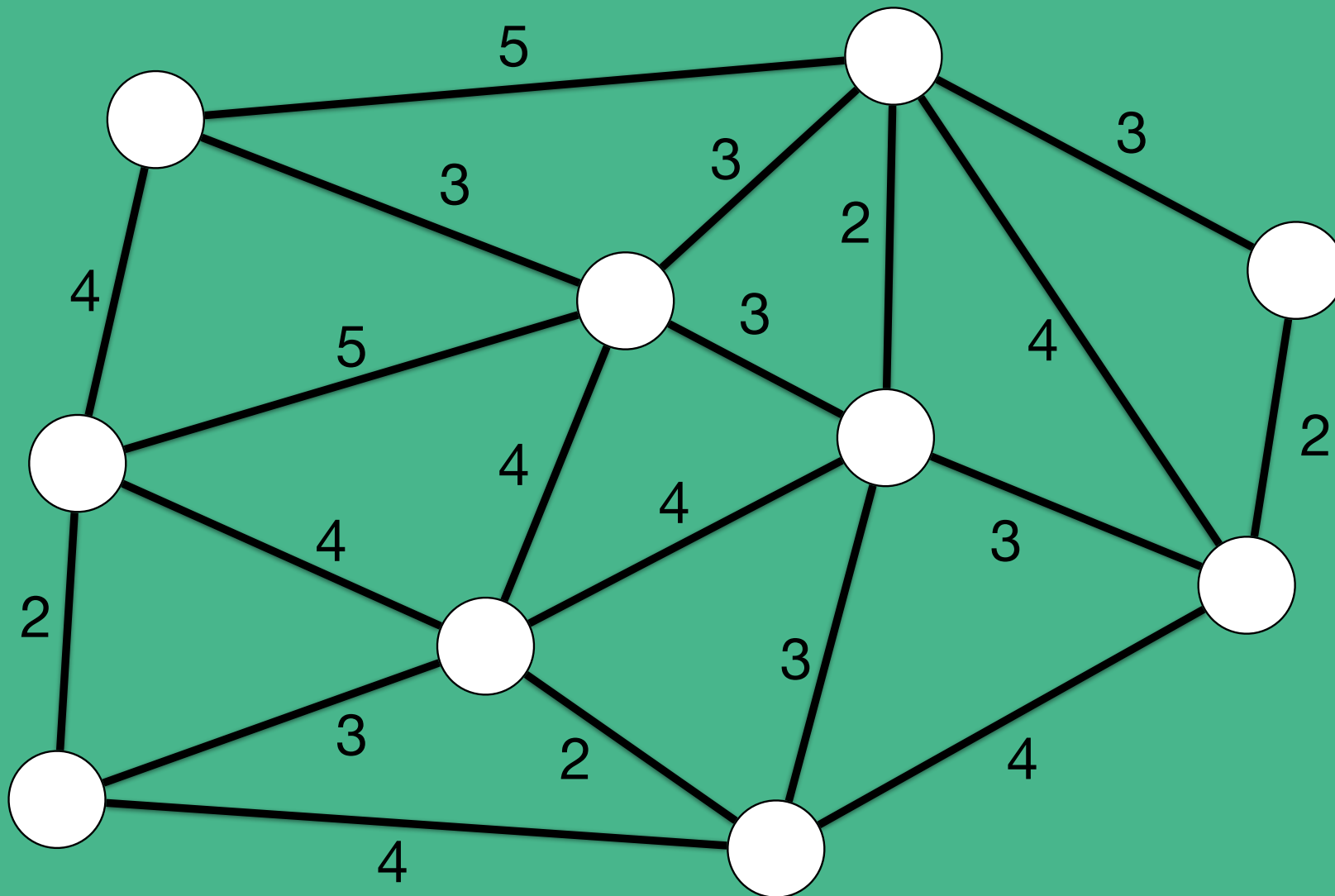
Algorithme de Kruskal

1. Partir de n'importe quelle ville.
2. Choisir la route la plus petite qui ajoute une ville n'appartenant pas encore au réseau.
3. Recommencer étape 2 jusqu'à avoir toutes les villes dans le réseau

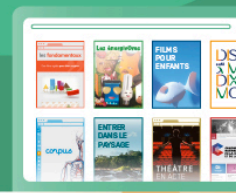
Résultat :

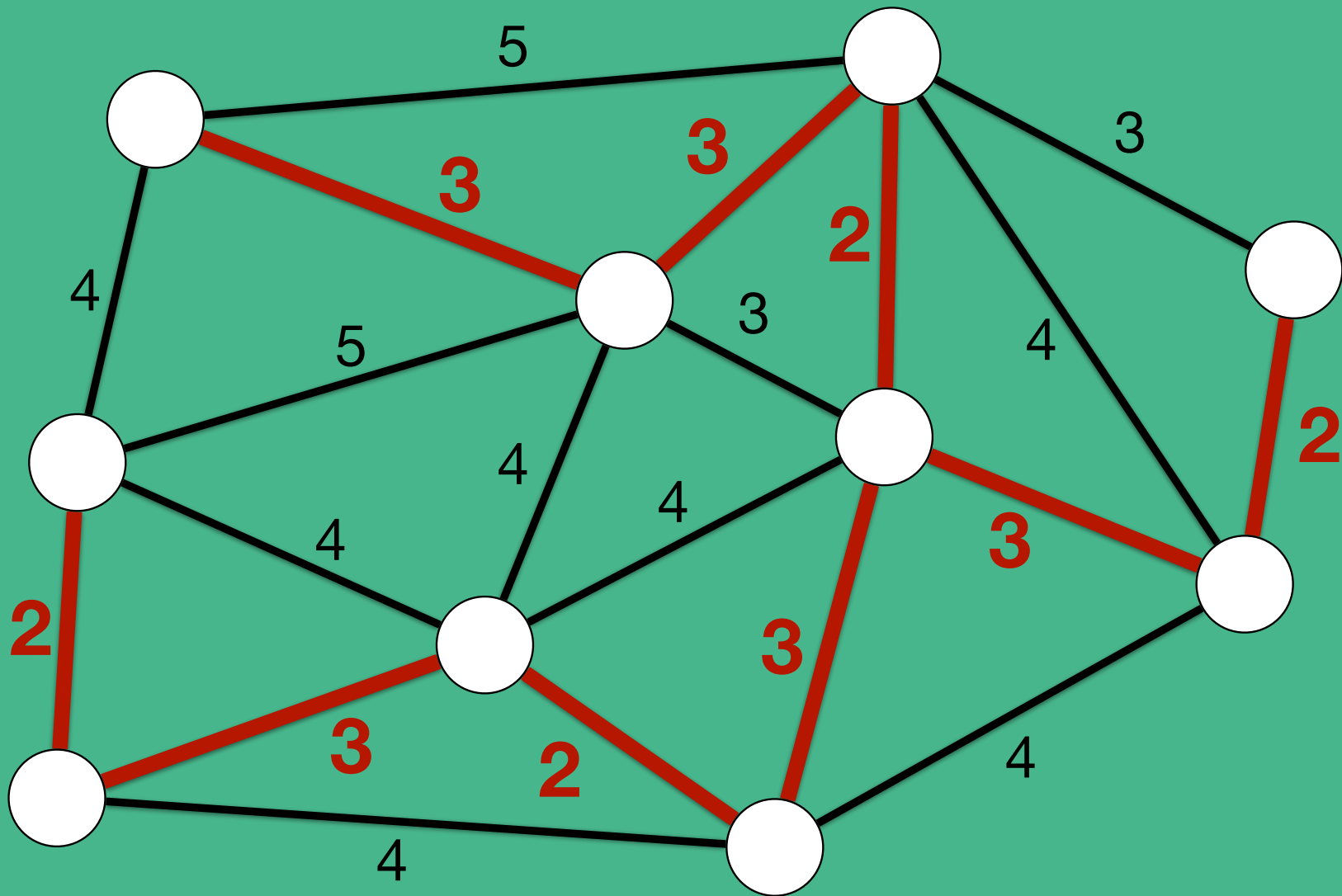
n villes \rightarrow $n-1$ routes



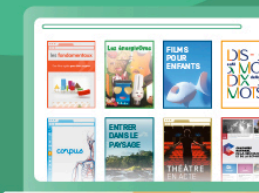


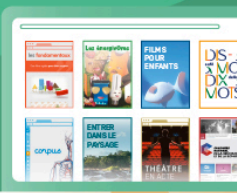
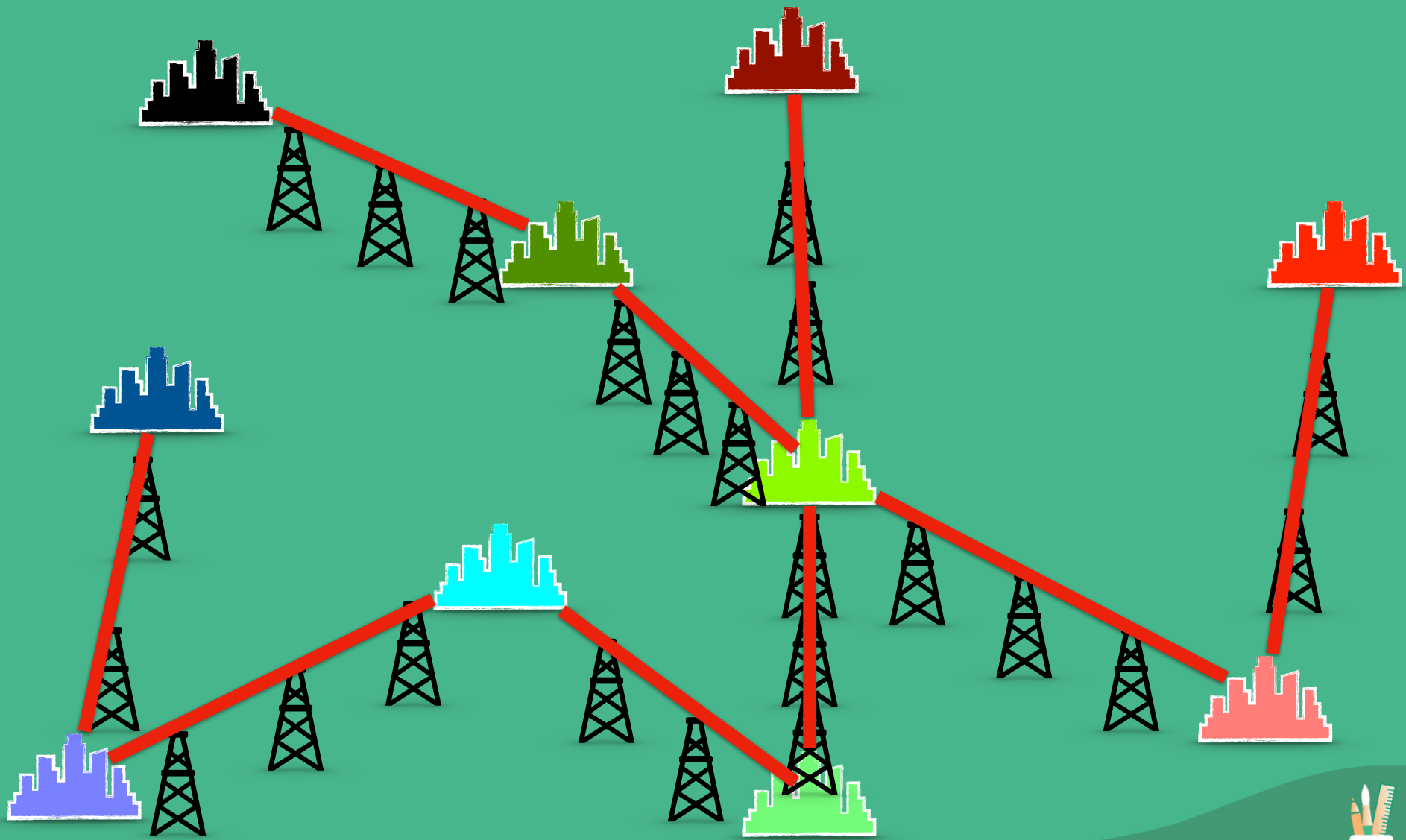
9
n





9
n

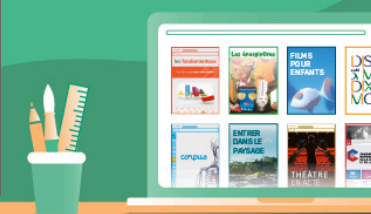




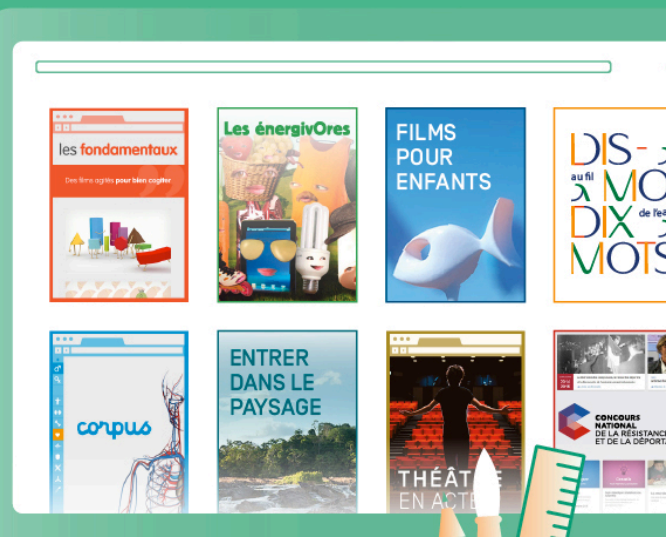
	$\log(n)$	n	$n \times \log(n)$	n^2
10	2,3	10	23	100
50	3,9	50	196	2 500
100	4,6	100	461	10 000
200	5,3	200	1 060	40 000



n	$n \times \log(n)$	n^2	a^n	$n!$
10	23	100	1024	3628800
50	196	2500	1125899906 842620	30414093201713400 000000000000000000 000000000000000000 000000000000000000
51	201	2601	2251799813 685250	15511187532873800 000000000000000000 000000000000000000 000000000000000000
52	205	2704	4503599627 370500	80658175170943900 000000000000000000 000000000000000000 000000000000000000
100	461	10000	1267650600228 23000000000000 00000	93326215443944200000000000 000000000000000000000000 000000000000000000000000 000000000000000000000000 000000000000000000000000 000000000000000000000000 000000000000000000000000 00



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Merci à tous !

Vos attestations de présence et les liens vers les ressources citées seront prochainement dans votre espace MON AGENDA du site

<https://www.reseau-canope.fr/>

Retrouvez d'autres ressources sur

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