

Molar mass

Solubility

Frequency

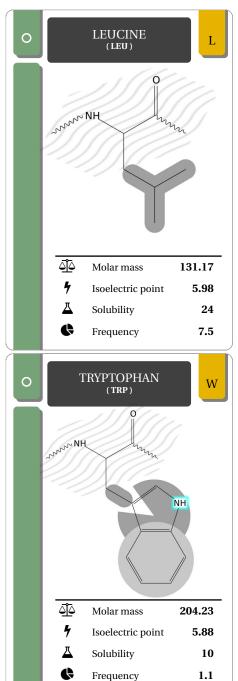
Isoelectric point

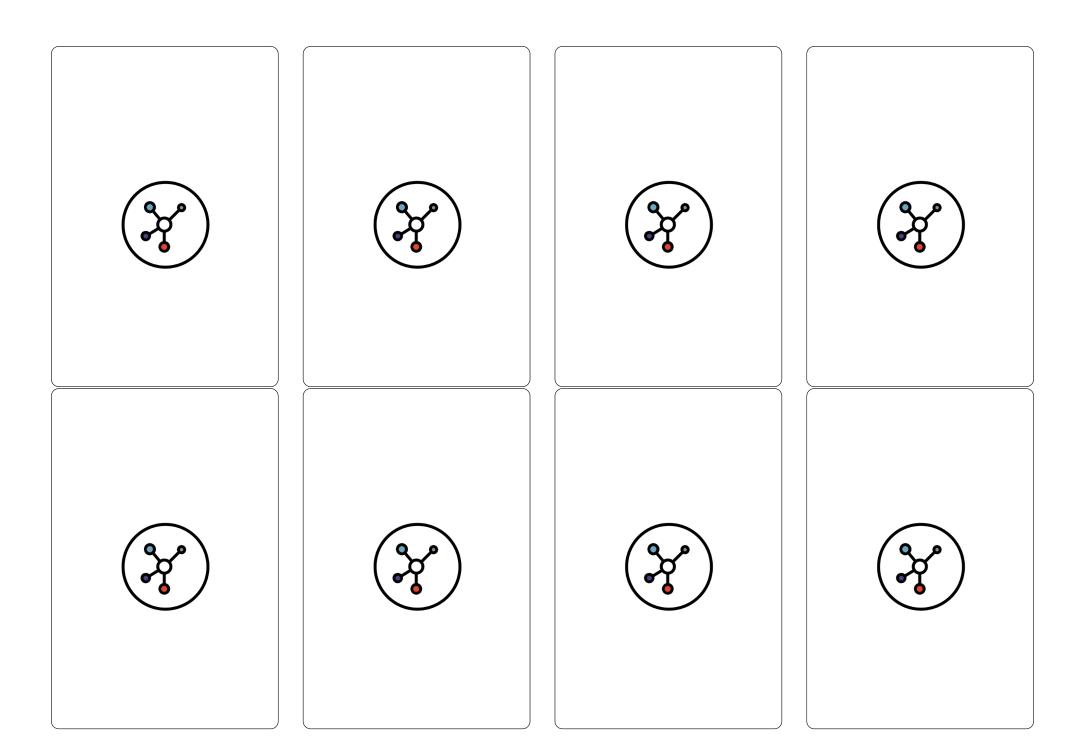
165.19

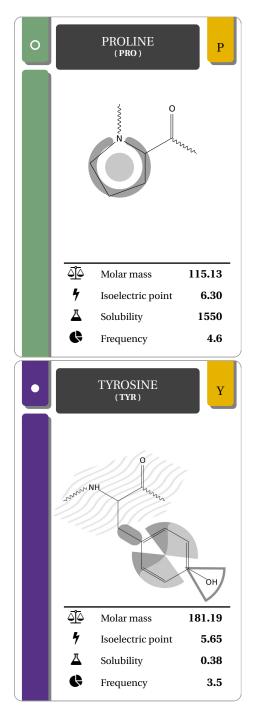
5.48

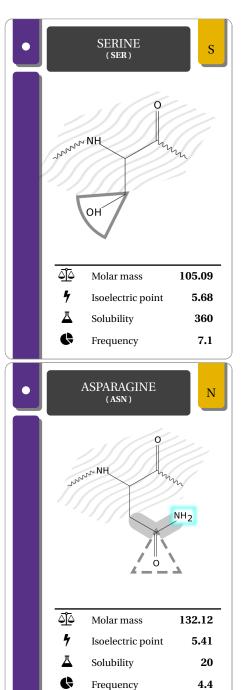
27

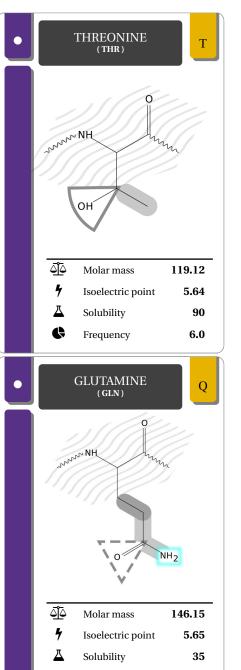
3.5





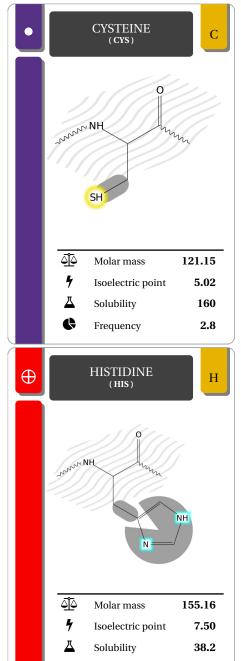






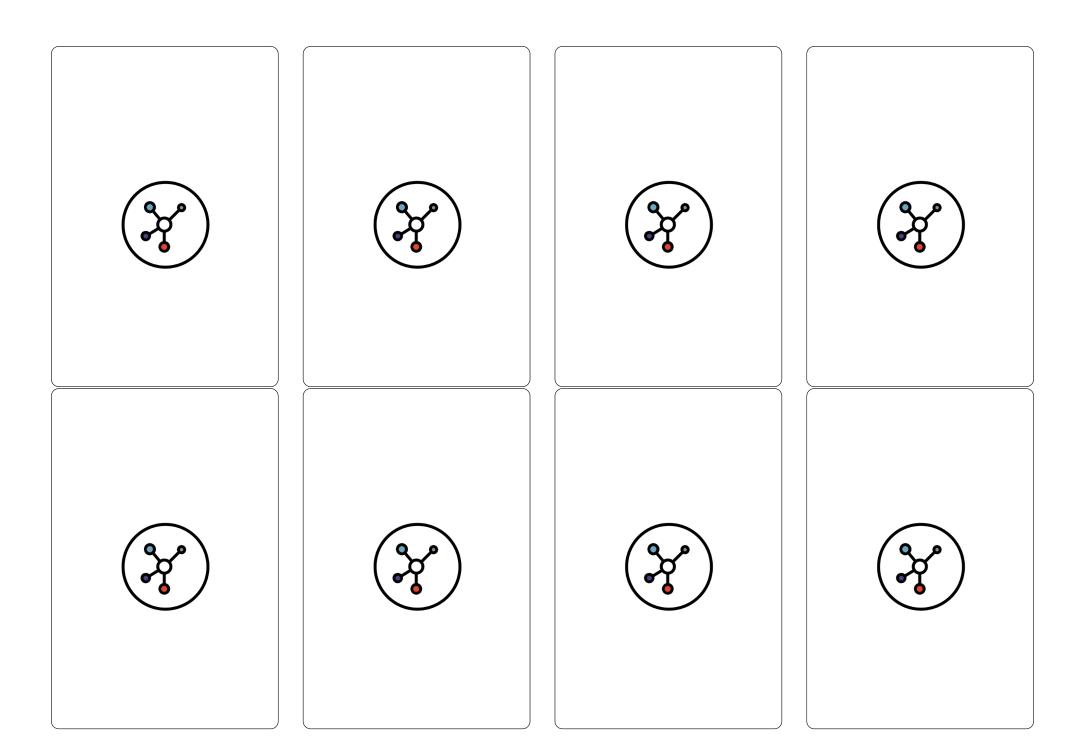
Frequency

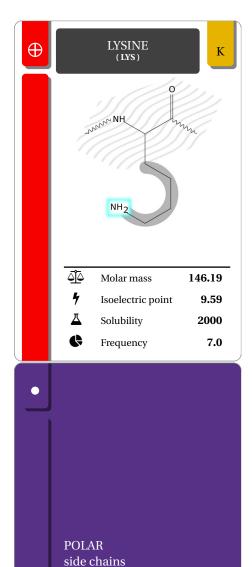
3.9



Frequency

2.1



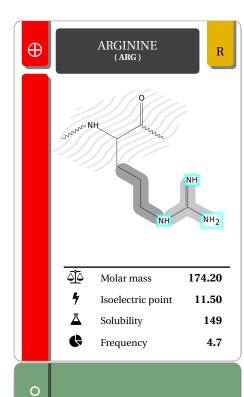


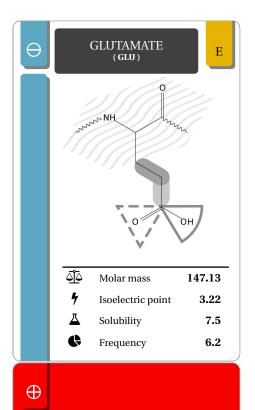
Six amino acids have side chains that are

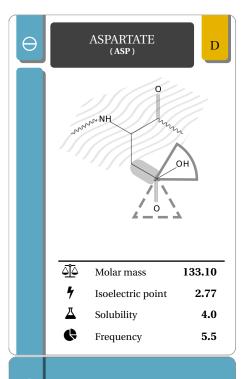
polar but not charged. These amino acids

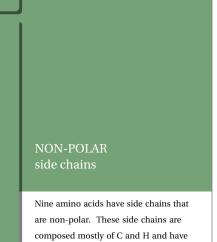
may participate in H bonds and are usually

found at the surface of proteins.





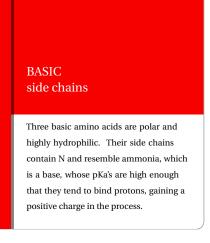


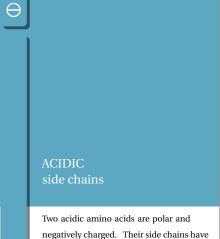


very small dipole moments. These amino

acids are usually buried within the core of

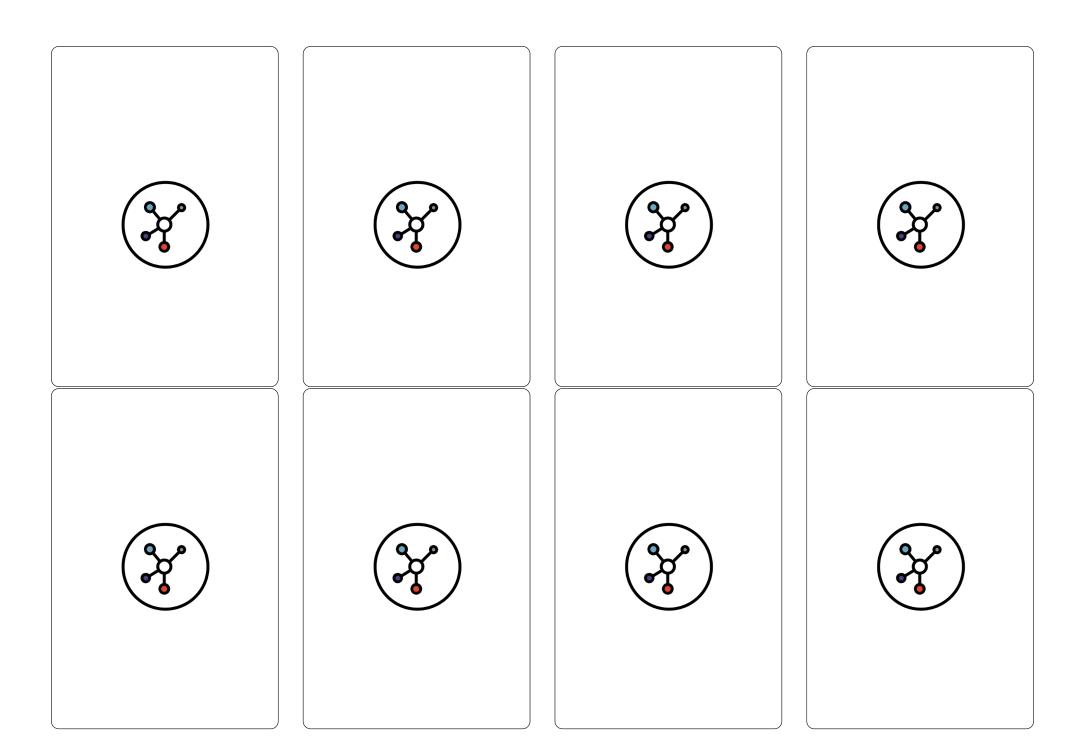
proteins.





a second carboxylic acid groups whose

pKa's are low enough to lose protons, gaining a negative charge in the process.







RULES

Distribute all cards amongst all players. Last seated player, **challenges** any other player for:

- any amino acid card
- · a card of a specific colour
- · a particular amino acid

Next turn, the player who lost a card speaks up to try and gain another player's card. To win, collect cards of the same colour. Protect your completed colour by folding the cards in front of you.



Molar mass [g/mol]



Isoelectric point



Solubility in water at $20^{\circ} C [g/L]$



Frequency in proteins [%]

