


**A**




*Adenine*

**A**

A card for Adenine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'A' is printed in white on the red stripes. The name 'Adenine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**A**

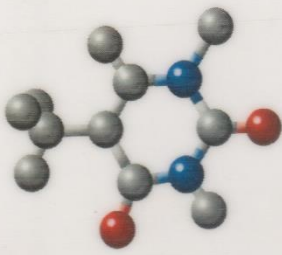


*Adenine*

**A**

A card for Adenine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'A' is printed in white on the red stripes. The name 'Adenine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**T**

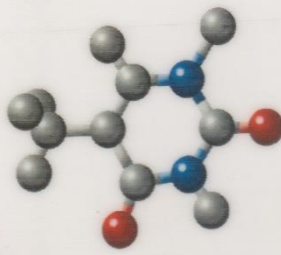


*Thymine*

**T**

A card for Thymine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'T' is printed in white on the red stripes. The name 'Thymine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**T**

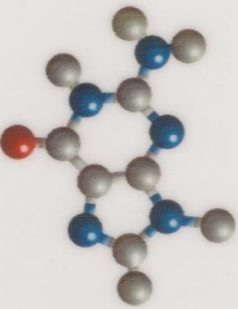


*Thymine*

**T**

A card for Thymine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'T' is printed in white on the red stripes. The name 'Thymine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**G**

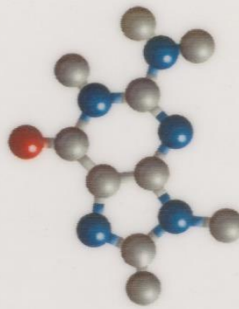


*Guanine*

**G**

A card for Guanine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'G' is printed in white on the red stripes. The name 'Guanine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**G**



*Guanine*

**G**

A card for Guanine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'G' is printed in white on the red stripes. The name 'Guanine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**C**



*Cytosine*

**C**

A card for Cytosine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'C' is printed in white on the red stripes. The name 'Cytosine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.

**C**




*Cytosine*

**C**

A card for Cytosine with a red diagonal stripe in the top-left and bottom-right corners. The letter 'C' is printed in white on the red stripes. The name 'Cytosine' is written in red cursive, and a ball-and-stick model of the molecule is shown in the center.


**A**



*Adenine*

**A**

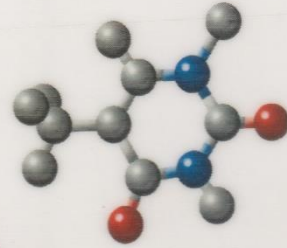
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*Adenine*

**A**

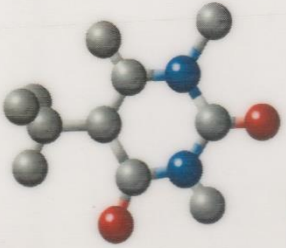
**T**



*Thymine*

**T**

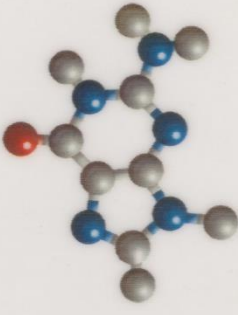
**T**



*Thymine*

**T**

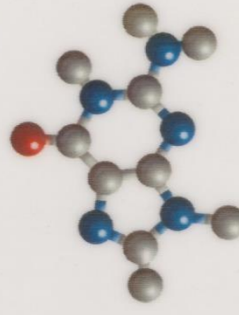
**G**



*Guanine*

**G**

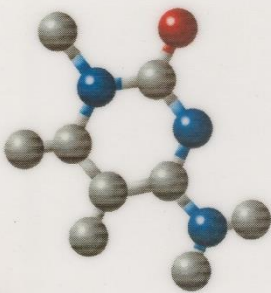
**G**



*Guanine*

**G**

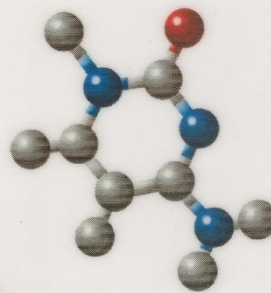
**C**



*Cytosine*

**C**


**C**



*Cytosine*

**C**


A



Adenine

A

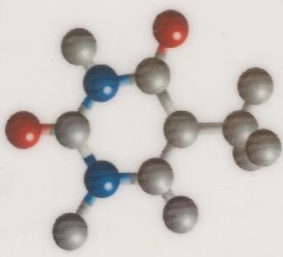
A



Adenine

A

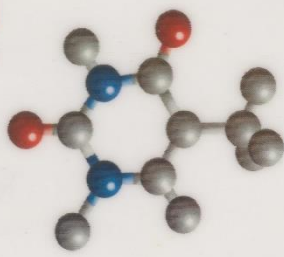
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Thymine

T

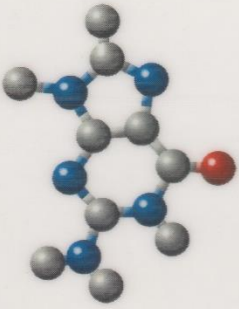
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Thymine

T

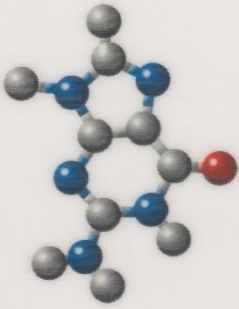
G



Guanine

G

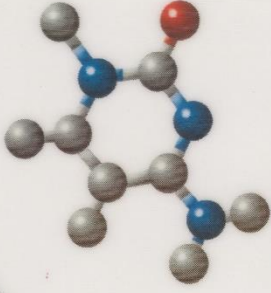
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Guanine

G

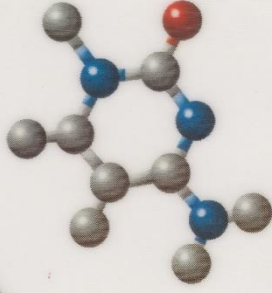
C



Cytosine

C


C



Cytosine

C


A



Adenine

A

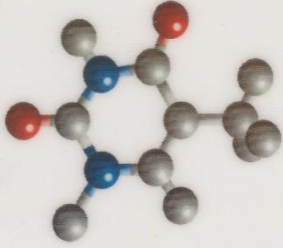
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Adenine

A

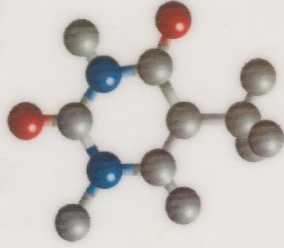
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Thymine

T

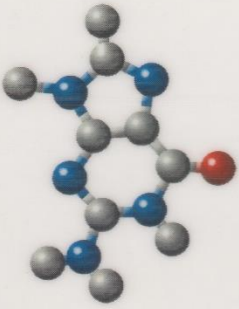
T



Thymine

T

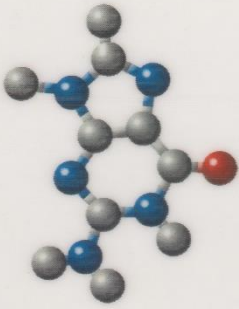
G



Guanine

G

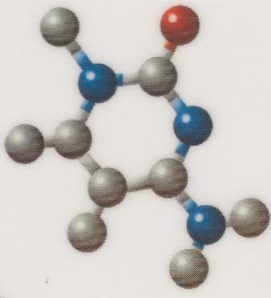
G



Guanine

G

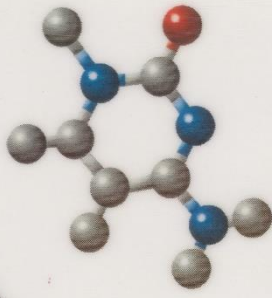
C



Cytosine

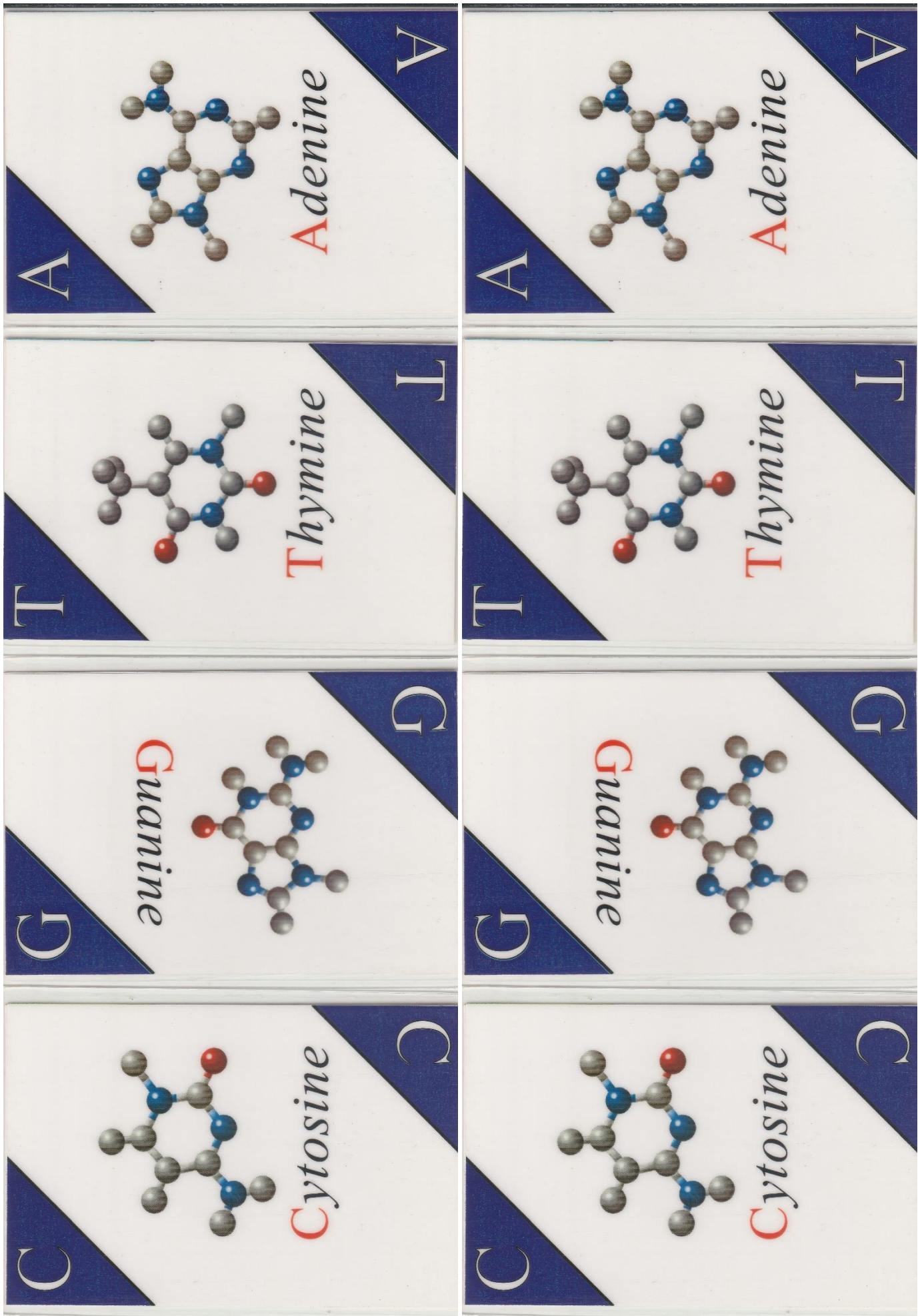
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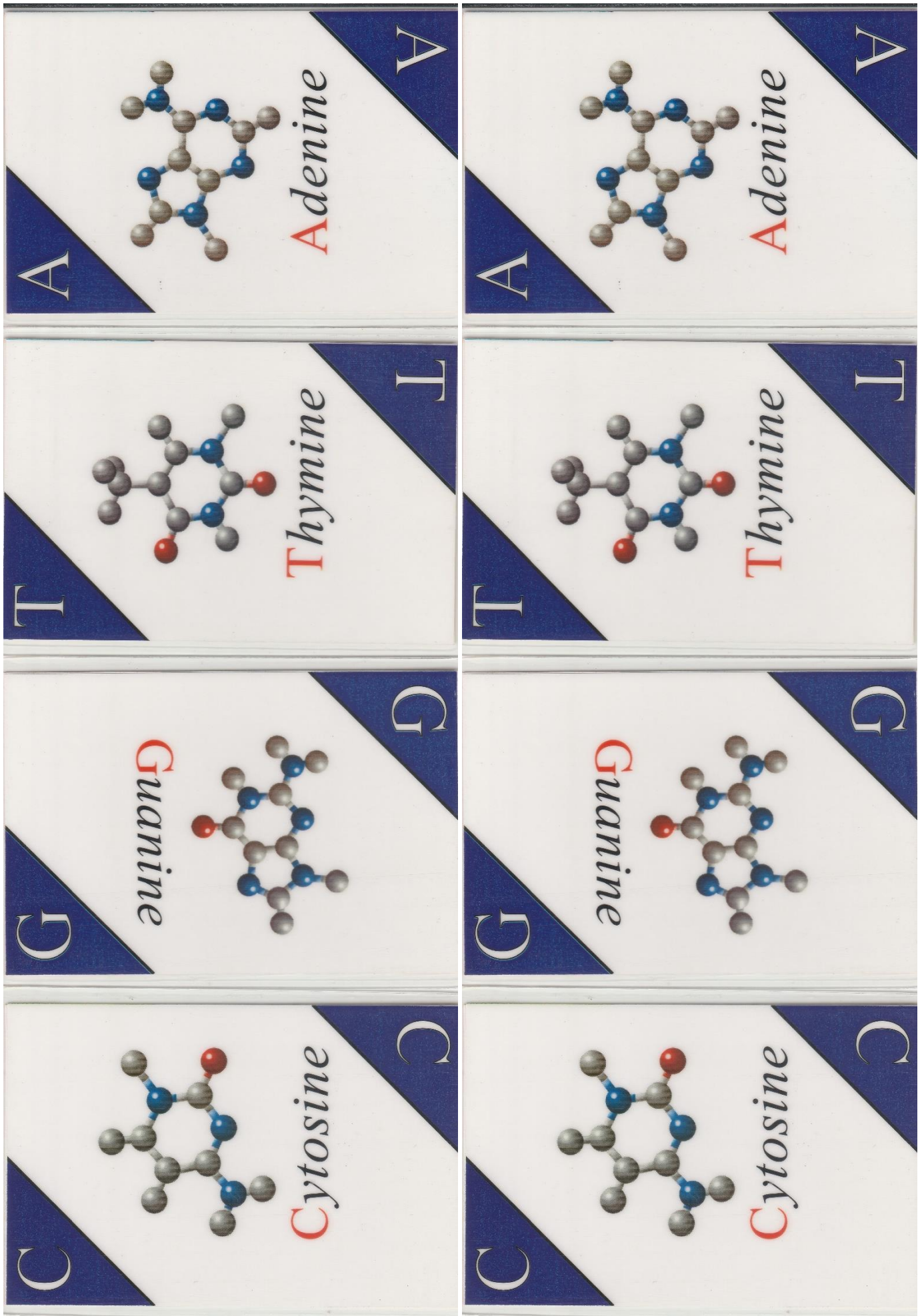
C



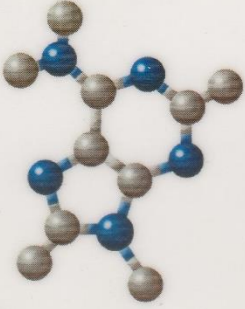
Cytosine

C





A




Adenine

A

Adenine is a purine base with a fused bicyclic ring system consisting of a six-membered ring fused to a five-membered ring. It has two amino groups attached to the six-membered ring.

A

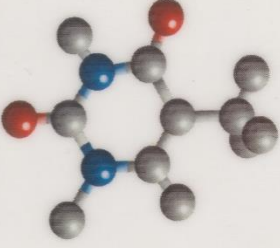


Adenine

A

Adenine is a purine base with a fused bicyclic ring system consisting of a six-membered ring fused to a five-membered ring. It has two amino groups attached to the six-membered ring.

T

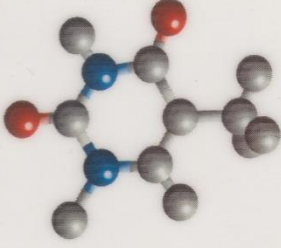


Thymine

T

Thymine is a pyrimidine base with a single six-membered ring. It has two carbonyl groups and a methyl group attached to the ring.

T

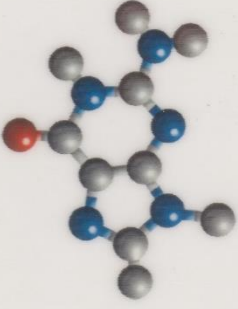


Thymine

T

Thymine is a pyrimidine base with a single six-membered ring. It has two carbonyl groups and a methyl group attached to the ring.

G

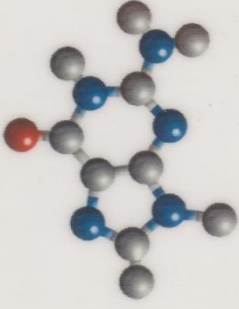


Guanine

G

Guanine is a purine base with a fused bicyclic ring system consisting of a six-membered ring fused to a five-membered ring. It has one amino group and one carbonyl group attached to the six-membered ring.

G




Guanine

G

Guanine is a purine base with a fused bicyclic ring system consisting of a six-membered ring fused to a five-membered ring. It has one amino group and one carbonyl group attached to the six-membered ring.

C



Cytosine

C

Cytosine is a pyrimidine base with a single six-membered ring. It has one amino group and one carbonyl group attached to the ring.

C

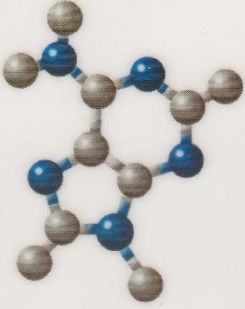


Cytosine

C

Cytosine is a pyrimidine base with a single six-membered ring. It has one amino group and one carbonyl group attached to the ring.

**A**




**Adenine**

**A**

Ball-and-stick model of Adenine, a purine base, showing a fused six-membered and five-membered ring system with nitrogen atoms (blue) and hydrogen atoms (white).

**A**

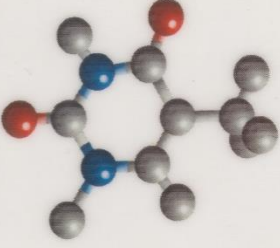


**Adenine**

**A**

Ball-and-stick model of Adenine, a purine base, showing a fused six-membered and five-membered ring system with nitrogen atoms (blue) and hydrogen atoms (white).

**T**

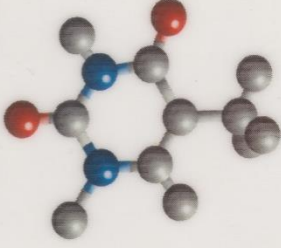


**Thymine**

**T**

Ball-and-stick model of Thymine, a pyrimidine base, showing a single six-membered ring with two carbonyl groups (red oxygen atoms) and a methyl group (grey carbon and white hydrogen atoms).

**T**

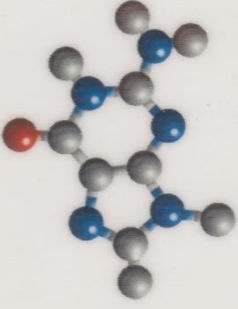


**Thymine**

**T**

Ball-and-stick model of Thymine, a pyrimidine base, showing a single six-membered ring with two carbonyl groups (red oxygen atoms) and a methyl group (grey carbon and white hydrogen atoms).

**G**

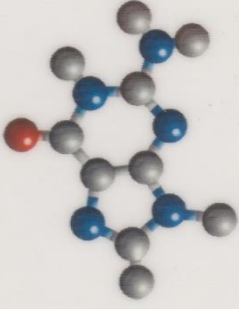


**Guanine**

**G**

Ball-and-stick model of Guanine, a purine base, showing a fused six-membered and five-membered ring system with a carbonyl group (red oxygen atom) and an amino group (blue nitrogen and white hydrogen atoms).

**G**




**Guanine**

**G**

Ball-and-stick model of Guanine, a purine base, showing a fused six-membered and five-membered ring system with a carbonyl group (red oxygen atom) and an amino group (blue nitrogen and white hydrogen atoms).

**C**



**Cytosine**

**C**

Ball-and-stick model of Cytosine, a pyrimidine base, showing a single six-membered ring with one carbonyl group (red oxygen atom) and one amino group (blue nitrogen and white hydrogen atoms).

**C**



**Cytosine**

**C**

Ball-and-stick model of Cytosine, a pyrimidine base, showing a single six-membered ring with one carbonyl group (red oxygen atom) and one amino group (blue nitrogen and white hydrogen atoms).



DP3



DP3

DP3



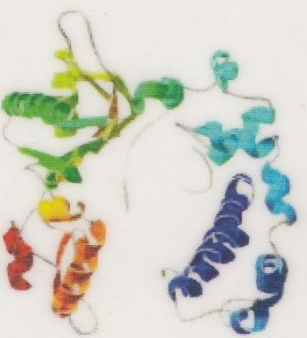
DP3

DP3



DP3

DP3



DP3

DP1



DP1

DP1



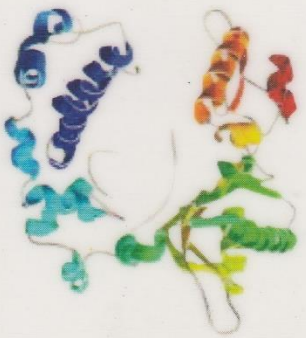
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DP1

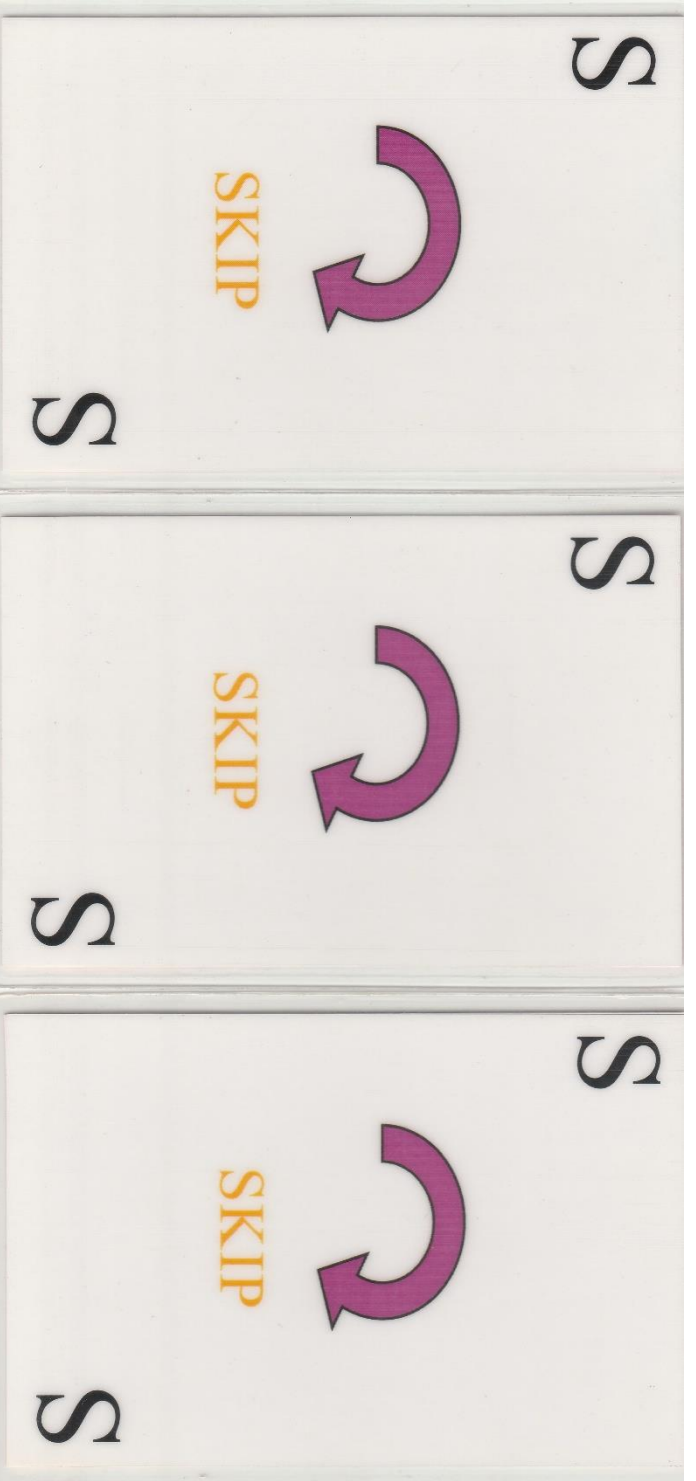


DP1

DP1

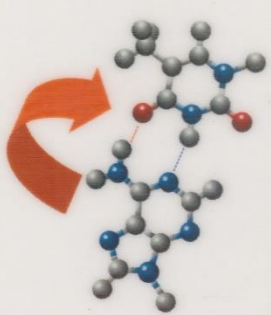


DP1





M+

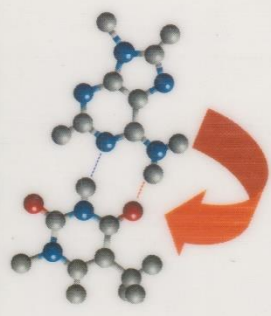


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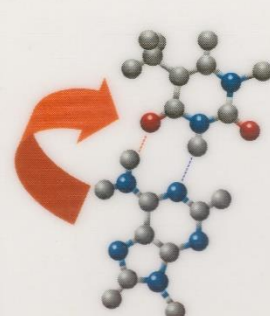
M+

INSERTION



+W

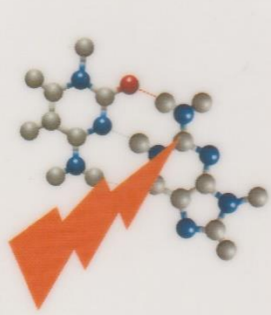
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INSERTION

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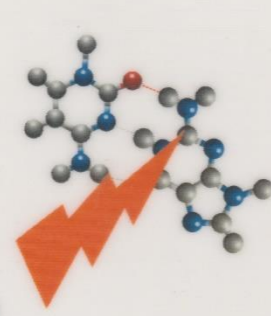
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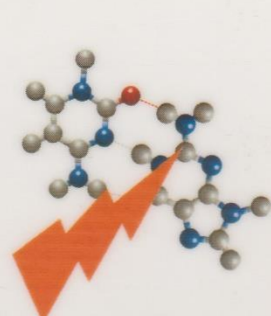
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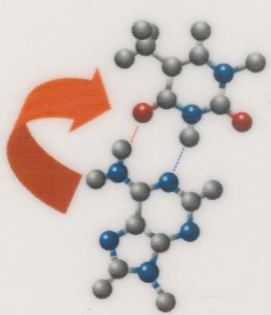
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DELETION

-W

M+

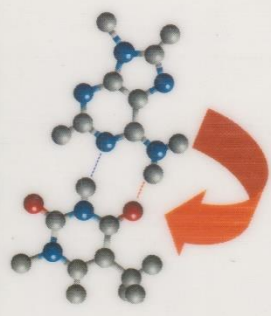


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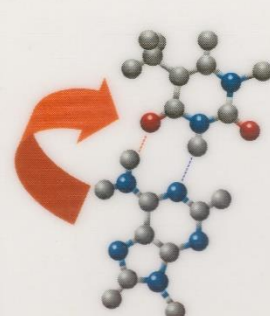
M+

INSERTION



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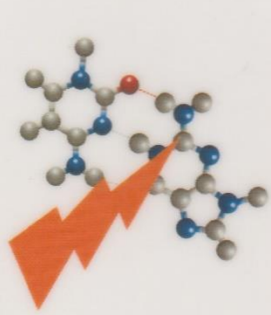
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INSERTION

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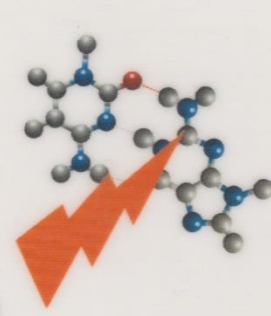
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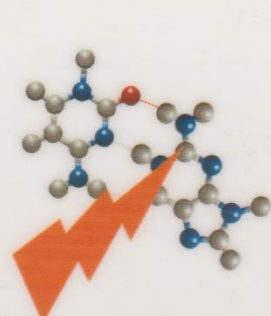
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DELETION

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