

Nama : Adelia Putri Widyasari
NIM : A11.2022.14426
Kelas : A11.43UG1

KUIS BLOCK CIPHER

IV : 101000111

Key : 426, 110101010 (biner)

Github : <https://github.com/adeliaputriw/Kriptografi-BlockCipher-43UG1-A11.2022.14426.git>

1. Bagaimana hasil konversi bit artikel?

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2. Bagaimana proses dan hasil enkripsi pada setiap block ofb?

Masukkan plain text: The latest image from NASA's James Webb Space Telescope shows a portion of the dense center of our galaxy in unprecedented detail, including never-before-seen features astronomers have yet to explain. The star-forming region, named Sagittarius C (Sgr C), is about 300 light-years from the Milky Way's central supermassive black hole, Sagittarius A*. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. The NIRCам (Near-Infrared Camera) instrument on NASA's James Webb Space Telescope's reveals a portion of the Milky Way's dense core in a new light. An estimated 500,000 stars shine in this image of the Sagittarius C (Sgr C) region, along with some as-yet unidentified features. A large region of ionized hydrogen, shown in cyan, contains intriguing needle-like structures that lack any uniform orientation. NASA, ESA, CSA, STScI, and S. Crowe (University of Virginia). "There's never been any infrared data on this region with the level of resolution and sensitivity we get with Webb, so we are seeing lots of features here for the first time," said the observation team's principal investigator Samuel Crowe, an undergraduate student at the University of Virginia in Charlottesville. "Webb reveals an incredible amount of detail, allowing us to study star formation in this sort of environment in a way that

wasn't possible previously." "The galactic center is the most extreme environment in our Milky Way galaxy, where current theories of star formation can be put to their most rigorous test," added professor Jonathan Tan, one of Crowe's advisors at the University of Virginia. Protostars Amid the estimated 500,000 stars in the image is a cluster of protostars - stars that are still forming and gaining mass - producing outflows that glow like a bonfire in the midst of an infrared-dark cloud. At the heart of this young cluster is a previously known, massive protostar over 30 times the mass of our Sun. The cloud the protostars are emerging from is so dense that the light from stars behind it cannot reach Webb, making it appear less crowded when in fact it is one of the most densely packed areas of the image. Smaller infrared-dark clouds dot the image, looking like holes in the starfield. That's where future stars are forming. Webb's NIRCам (Near-Infrared Camera) instrument also captured large-scale emission from ionized hydrogen surrounding the lower side of the dark cloud, shown cyan-colored in the image. Typically, Crowe says, this is the result of energetic photons being emitted by young massive stars, but the vast extent of the region shown by Webb is something of a surprise that bears further investigation. Another feature of the region that Crowe plans to examine further is the needle-like structures in the ionized hydrogen, which appear oriented chaotically in many directions. "The galactic center is a crowded, tumultuous place. There are turbulent, magnetized gas clouds that are forming stars, which then impact the surrounding gas with their outflowing winds, jets, and radiation," said Rubén Fedriani, a co-investigator of the project at the Instituto Astrofísica de Andalucía in Spain. "Webb has provided us with a ton of data on this extreme environment, and we are just starting to dig into it." Image: Sagittarius C Features A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall, with features outlined in the image in different colors. A key on the right indicates what each outline is highlighting. From the top of the key down: an orange circle next to text, protostar cluster. An irregular green dashed-line shape with text, infrared-dark cloud. A straight red dashed-line with text, needle structures. An irregular yellow dotted-line shape with text, ionized hydrogen. See extended description for more details on the image. Approximate outlines help to define the features in the Sagittarius C (Sgr C) region. Astronomers are studying data from NASA's James Webb Space Telescope to understand the relationship between these features, as well as other influences in the chaotic galaxy center. NASA, ESA, CSA, STScI, Samuel Crowe (UVA) Around 25,000 light-years from Earth, the galactic center is close enough to study individual stars with the Webb telescope, allowing astronomers to gather unprecedented information on how stars form, and how this process may depend on the cosmic environment, especially compared to other regions of the galaxy. For example, are more massive stars formed in the center of the Milky Way, as opposed to the edges of its spiral arms? "The image from Webb is stunning, and the science we will get from it is even better," Crowe said. "Massive stars are factories that produce heavy elements in their nuclear cores, so understanding them better is like learning the origin story of much of the universe." The James Webb Space Telescope is the world's premier space science observatory. Webb is solving mysteries in our solar system, looking beyond to distant worlds around other stars, and probing the mysterious structures and origins of our universe and our place in it. Webb is an international program led by NASA with its partners, ESA (European Space Agency) and the Canadian Space Agency.

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Blok ke-2 Enkripsi XOR (C2): 01011000

Nilai IV 00000000
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Hasil XOR IV dengan key 2 00110001
nilai xor IV setelah shifting 01001100
nilai block original 01101000
Blok ke-3 Enkripsi XOR (C3): 00100100

Nilai IV 00000000
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Hasil XOR IV dengan key 3 00110000
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Blok ke-4 Enkripsi XOR (C4): 01101001

Hasil enkripsi binary
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Pilihlah salah satu dari pilihan berikut:

1. Encrypt
2. Decrypt
3. Custom jumlah bit
4. Keluar dari program

Masukkan pilihan Anda: 1

Masukkan plain text: The latest image from NASA's James Webb Space Telescope shows a portion of the dense center of our galaxy in unprecedented detail, including never-before-seen features astronomers have yet to explain. The star-forming region, named Sagittarius C (Sgr C), is about 300 light-years from the Milky Way's central supermassive black hole, Sagittarius A*. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-

shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. The NIRCam (Near-Infrared Camera) instrument on NASA's James Webb Space Telescope's reveals a portion of the Milky Way's dense core in a new light. An estimated 500,000 stars shine in this image of the Sagittarius C (Sgr C) region, along with some as-yet unidentified features. A large region of ionized hydrogen, shown in cyan, contains intriguing needle-like structures that lack any uniform orientation. NASA, ESA, CSA, STScI, and S. Crowe (University of Virginia). "There's never been any infrared data on this region with the level of resolution and sensitivity we get with Webb, so we are seeing lots of features here for the first time," said the observation team's principal investigator Samuel Crowe, an undergraduate student at the University of Virginia in Charlottesville. "Webb reveals an incredible amount of detail, allowing us to study star formation in this sort of environment in a way that wasn't possible previously." "The galactic center is the most extreme environment in our Milky Way galaxy, where current theories of star formation can be put to their most rigorous test," added professor Jonathan Tan, one of Crowe's advisors at the University of Virginia. Protostars Amid the estimated 500,000 stars in the image is a cluster of protostars - stars that are still forming and gaining mass - producing outflows that glow like a bonfire in the midst of an infrared-dark cloud. At the heart of this young cluster is a previously known, massive protostar over 30 times the mass of our Sun. The cloud the protostars are emerging from is so dense that the light from stars behind it cannot reach Webb, making it appear less crowded when in fact it is one of the most densely packed areas of the image. Smaller infrared-dark clouds dot the image, looking like holes in the starfield. That's where future stars are forming. Webb's NIRCam (Near-Infrared Camera) instrument also captured large-scale emission from ionized hydrogen surrounding the lower side of the dark cloud, shown cyan-colored in the image. Typically, Crowe says, this is the result of energetic photons being emitted by young massive stars, but the vast extent of the region shown by Webb is something of a surprise that bears further investigation. Another feature of the region that Crowe plans to examine further is the needle-like structures in the ionized hydrogen, which appear oriented chaotically in many directions. "The galactic center is a crowded, tumultuous place. There are turbulent, magnetized gas clouds that are forming stars, which then impact the surrounding gas with their outflowing winds, jets, and radiation," said Rubén Fedriani, a co-investigator of the project at the Instituto Astrofísica de Andalucía in Spain. "Webb has provided us with a ton of data on this extreme environment, and we are just starting to dig into it." Image: Sagittarius C Features A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall, with features outlined in the image in different colors. A key on the right indicates what each outline is highlighting. From the top of the key down: an orange circle next to text, protostar cluster. An irregular green dashed-line shape with text, infrared-dark cloud. A straight red dashed-line with text, needle structures. An irregular yellow dotted-line shape with text, ionized hydrogen.

See extended description for more details on the image. Approximate outlines help to define the features in the Sagittarius C (Sgr C) region. Astronomers are studying data from NASA's James Webb Space Telescope to understand the relationship between these features, as well as other influences in the chaotic galaxy center. NASA, ESA, CSA, STScI, Samuel Crowe (UVA) Around 25,000 light-years from Earth, the galactic center is close enough to study individual stars with the Webb telescope, allowing astronomers to gather unprecedented information on how stars form, and how this process may depend on the cosmic environment, especially compared to other regions of the galaxy. For example, are more massive stars formed in the center of the Milky Way, as opposed to the edges of its spiral arms? "The image from Webb is stunning, and the science we will get from it is even better," Crowe said. "Massive stars are factories that produce heavy elements in their nuclear cores, so understanding them better is like learning the origin story of much of the universe." The James Webb Space Telescope is the world's premier space science observatory. Webb is solving mysteries in our solar system, looking beyond to distant worlds around other stars, and probing the mysterious structures and origins of our universe and our place in it. Webb is an international program led by NASA with its partners, ESA (European Space Agency) and the Canadian Space Agency.

Masukkan kunci: 110101010

Masukkan Initialize vector (sesuai custom bit): 101000111

52552

Nilai IV 00000001

nilai key 1 00110001

Hasil XOR IV dengan key 1 00110000

nilai xor IV setelah shifting 00001100

nilai block original 01010100

Blok ke-2 Enkripsi XOR (C2): 01011000

Nilai IV 00000000

nilai key 2 00110001

Hasil XOR IV dengan key 2 00110001

nilai xor IV setelah shifting 01001100

nilai block original 01101000

Blok ke-3 Enkripsi XOR (C3): 00100100

Nilai IV 00000000

nilai key 3 00110000

Hasil XOR IV dengan key 3 00110000

nilai xor IV setelah shifting 00001100

nilai block original 01100101

Blok ke-4 Enkripsi XOR (C4): 01101001

Hasil enkripsi binary

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1f3c2d2f296c0d2b29222f3562

3. Bagaimana proses dan hasil dekripsi pada setiap block ofb?

Masukkan cipher text (dalam heksadesimal):

5824696c602d78297f386c25212d2b296c2a3e23216c020d1f0d6b3f6c062d21293f6c1

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Nilai IV 00000001
Nilai key 00110001
Hasil XOR IV dengan key 00110000
Nilai xor IV setelah shifting 00001100
Nilai block original 01011000
Blok ke-2 Plain Text XOR (P2): 01010100

Nilai IV 00000000
Nilai key 00110001
Hasil XOR IV dengan key 00110001
Nilai xor IV setelah shifting 01001100
Nilai block original 00100100
Blok ke-3 Plain Text XOR (P3): 01101000

Nilai IV 00000000
Nilai key 00110000
Hasil XOR IV dengan key 00110000
Nilai xor IV setelah shifting 00001100
Nilai block original 01101001
Blok ke-4 Plain Text XOR (P4): 01100101

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Plain Text: The latest image from NASA's James Webb Space Telescope shows a portion of the dense center of our galaxy in unprecedented detail, including never-before-seen features astronomers have yet to explain. The star-forming region, named Sagittarius C (Sgr C), is about 300 light-years from the Milky Way's central supermassive black hole, Sagittarius A*. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall. A funnel-shaped region of space appears darker than its surroundings with fewer stars. It is wider at the top edge of the image, narrowing towards the bottom. Toward the narrow end of this dark region a small clump of red and white appears to shoot out streamers upward and left. A large, bright cyan-colored area surrounds the lower portion of the funnel-shaped dark area, forming a rough U shape. The cyan-colored area has needle-like, linear structures and becomes more diffuse in the center of the image. The right side of the image is dominated by clouds of orange and red, with a purple haze. The NIRCам (Near-Infrared Camera) instrument on NASA's James Webb Space Telescope's reveals a portion of the Milky Way's dense core in a new light. An estimated 500,000 stars shine in this image of the Sagittarius C (Sgr C) region, along with some as-yet unidentified features. A large region of ionized hydrogen, shown in

cyan, contains intriguing needle-like structures that lack any uniform orientation. NASA, ESA, CSA, STScI, and S. Crowe (University of Virginia). "There's never been any infrared data on this region with the level of resolution and sensitivity we get with Webb, so we are seeing lots of features here for the first time," said the observation team's principal investigator Samuel Crowe, an undergraduate student at the University of Virginia in Charlottesville. "Webb reveals an incredible amount of detail, allowing us to study star formation in this sort of environment in a way that wasn't possible previously." "The galactic center is the most extreme environment in our Milky Way galaxy, where current theories of star formation can be put to their most rigorous test," added professor Jonathan Tan, one of Crowe's advisors at the University of Virginia. Protostars Amid the estimated 500,000 stars in the image is a cluster of protostars - stars that are still forming and gaining mass - producing outflows that glow like a bonfire in the midst of an infrared-dark cloud. At the heart of this young cluster is a previously known, massive protostar over 30 times the mass of our Sun. The cloud the protostars are emerging from is so dense that the light from stars behind it cannot reach Webb, making it appear less crowded when in fact it is one of the most densely packed areas of the image. Smaller infrared-dark clouds dot the image, looking like holes in the starfield. That's where future stars are forming. Webb's NIRCам (Near-Infrared Camera) instrument also captured large-scale emission from ionized hydrogen surrounding the lower side of the dark cloud, shown cyan-colored in the image. Typically, Crowe says, this is the result of energetic photons being emitted by young massive stars, but the vast extent of the region shown by Webb is something of a surprise that bears further investigation. Another feature of the region that Crowe plans to examine further is the needle-like structures in the ionized hydrogen, which appear oriented chaotically in many directions. "The galactic center is a crowded, tumultuous place. There are turbulent, magnetized gas clouds that are forming stars, which then impact the surrounding gas with their outflowing winds, jets, and radiation," said Rubén Fedriani, a co-investigator of the project at the Instituto Astrofísica de Andalucía in Spain. "Webb has provided us with a ton of data on this extreme environment, and we are just starting to dig into it." Image: Sagittarius C Features A crowded region of space, full of stars and colorful clouds, more than twice as wide as it is tall, with features outlined in the image in different colors. A key on the right indicates what each outline is highlighting. From the top of the key down: an orange circle next to text, protostar cluster. An irregular green dashed-line shape with text, infrared-dark cloud. A straight red dashed-line with text, needle structures. An irregular yellow dotted-line shape with text, ionized hydrogen. See extended description for more details on the image. Approximate outlines help to define the features in the Sagittarius C (Sgr C) region. Astronomers are studying data from NASA's James Webb Space Telescope to understand the relationship between these features, as well as other influences in the chaotic galaxy center. NASA, ESA, CSA, STScI, Samuel Crowe (UVA) Around 25,000 light-years from Earth, the galactic center is close enough to study individual stars with the Webb telescope, allowing astronomers to gather unprecedented information on how stars form, and how this process may depend on the cosmic environment, especially compared to other regions of the galaxy. For example, are more massive stars formed in the center of the Milky Way, as opposed to the edges of its spiral arms? "The image from Webb is stunning, and the science we will get from it is even better," Crowe said. "Massive

stars are factories that produce heavy elements in their nuclear cores, so understanding them better is like learning the origin story of much of the universe." The James Webb Space Telescope is the world's premier space science observatory. Webb is solving mysteries in our solar system, looking beyond to distant worlds around other stars, and probing the mysterious structures and origins of our universe and our place in it. Webb is an international program led by NASA with its partners, ESA (European Space Agency) and the Canadian Space Agency.