

2021학년도 연세대학교 수시모집 논술시험 자연계열1(수학, 오전)	2021학년도 연세대학교 수시모집 논술시험 자연계열1(화학, 오후)
[문제 1] 300개의 학생 중 4명을 선점하여, 두 명을 회장, 다른 2명은 명을 부회장, 나머지는 위원으로 임명하는 경우의 수가 최대가 되도록 하는 모든 4명 값을 구하시오. (단, $10 < a < 100$) [10점] [문제 2] 실수 전체의 집합에서 정의된 연속함수 $g(x)$가 다음 조건을 만족시켜라. 다음 물음에 답하시오. $g(x)g(2021x) = 1$ 구체적으로, $x=0$ 때에 대하여 $g(x+a) + g(x-a) = 2g(x)\cosh(ax)$이다. [문제 2-1] $\int_0^1 g(x)dx$의 값을 구하시오. [8점] [문제 2-2] $\left(\frac{1}{2}\right)^{\frac{1}{2021}} \left(\frac{1}{2}\right)^{\frac{1}{2021}} = \frac{1}{10}$일 때, $\left(\frac{1}{2}\right)^{\frac{1}{2021}}$의 값을 구하시오. [10점] [문제 3] 함수 $f(x) = ax^2 + bx + c$ (a, b, c는 정수)에 대하여, 방정식인 $2020 \cdot 2021$에서 $\{f(x)\}$의 최댓값이 $\frac{1}{2}$의 10승과 같은 함수 $f(x)$의 개수를 구하시오. [12점]	[문제 1] 보 다음 핵종수를 알고, 아래 질문에 답하시오. [1] 100g의 질량 속에 40g의 우라늄-238(^{238}U)과 60g의 우라늄-235(^{235}U)를 혼합하고 있다. 이 혼합물의 질량은 190g에서 300 gmm 이하로 있을 때, 이 혼합물의 2021년에 비하여 600 gmm까지 증가할까? 핵종수는 핵자의 수를 나타내며, 원자 번호와 같다. 이 혼합물의 질량은 2100g에서 2150g, 2200g, 2250g, 2300g, 2350g, 2400g, 2450g, 2500g, 2550g, 2600g, 2650g, 2700g, 2750g, 2800g, 2850g, 2900g, 2950g, 3000g, 3050g, 3100g, 3150g, 3200g, 3250g, 3300g, 3350g, 3400g, 3450g, 3500g, 3550g, 3600g, 3650g, 3700g, 3750g, 3800g, 3850g, 3900g, 3950g, 4000g, 4050g, 4100g, 4150g, 4200g, 4250g, 4300g, 4350g, 4400g, 4450g, 4500g, 4550g, 4600g, 4650g, 4700g, 4750g, 4800g, 4850g, 4900g, 4950g, 5000g, 5050g, 5100g, 5150g, 5200g, 5250g, 5300g, 5350g, 5400g, 5450g, 5500g, 5550g, 5600g, 5650g, 5700g, 5750g, 5800g, 5850g, 5900g, 5950g, 6000g, 6050g, 6100g, 6150g, 6200g, 6250g, 6300g, 6350g, 6400g, 6450g, 6500g, 6550g, 6600g, 6650g, 6700g, 6750g, 6800g, 6850g, 6900g, 6950g, 7000g, 7050g, 7100g, 7150g, 7200g, 7250g, 7300g, 7350g, 7400g, 7450g, 7500g, 7550g, 7600g, 7650g, 7700g, 7750g, 7800g, 7850g, 7900g, 7950g, 8000g, 8050g, 8100g, 8150g, 8200g, 8250g, 8300g, 8350g, 8400g, 8450g, 8500g, 8550g, 8600g, 8650g, 8700g, 8750g, 8800g, 8850g, 8900g, 8950g, 9000g, 9050g, 9100g, 9150g, 9200g, 9250g, 9300g, 9350g, 9400g, 9450g, 9500g, 9550g, 9600g, 9650g, 9700g, 9750g, 9800g, 9850g, 9900g, 9950g, 10000g, 10050g, 10100g, 10150g, 10200g, 10250g, 10300g, 10350g, 10400g, 10450g, 10500g, 10550g, 10600g, 10650g, 10700g, 10750g, 10800g, 10850g, 10900g, 10950g, 11000g, 11050g, 11100g, 11150g, 11200g, 11250g, 11300g, 11350g, 11400g, 11450g, 11500g, 11550g, 11600g, 11650g, 11700g, 11750g, 11800g, 11850g, 11900g, 11950g, 12000g, 12050g, 12100g, 12150g, 12200g, 12250g, 12300g, 12350g, 12400g, 12450g, 12500g, 12550g, 12600g, 12650g, 12700g, 12750g, 12800g, 12850g, 12900g, 12950g, 13000g, 13050g, 13100g, 13150g, 13200g, 13250g, 13300g, 13350g, 13400g, 13450g, 13500g, 13550g, 13600g, 13650g, 13700g, 13750g, 13800g, 13850g, 13900g, 13950g, 14000g, 14050g, 14100g, 14150g, 14200g, 14250g, 14300g, 14350g, 14400g, 14450g, 14500g, 14550g, 14600g, 14650g, 14700g, 14750g, 14800g, 14850g, 14900g, 14950g, 15000g, 15050g, 15100g, 15150g, 15200g, 15250g, 15300g, 15350g, 15400g, 15450g, 15500g, 15550g, 15600g, 15650g, 15700g, 15750g, 15800g, 15850g, 15900g, 15950g, 16000g, 16050g, 16100g, 16150g, 16200g, 16250g, 16300g, 16350g, 16400g, 16450g, 16500g, 16550g, 16600g, 16650g, 16700g, 16750g, 16800g, 16850g, 16900g, 16950g, 17000g, 17050g, 17100g, 17150g, 17200g, 17250g, 17300g, 17350g, 17400g, 17450g, 17500g, 17550g, 17600g, 17650g, 17700g, 17750g, 17800g, 17850g, 17900g, 17950g, 18000g, 18050g, 18100g, 18150g, 18200g, 18250g, 18300g, 18350g, 18400g, 18450g, 18500g, 18550g, 18600g, 18650g, 18700g, 18750g, 18800g, 18850g, 18900g, 18950g, 19000g, 19050g, 19100g, 19150g, 19200g, 19250g, 19300g, 19350g, 19400g, 19450g, 19500g, 19550g, 19600g, 19650g, 19700g, 19750g, 19800g, 19850g, 19900g, 19950g, 20000g, 20050g, 20100g, 20150g, 20200g, 20250g, 20300g, 20350g, 20400g, 20450g, 20500g, 20550g, 20600g, 20650g, 20700g, 20750g, 20800g, 20850g, 20900g, 20950g, 21000g, 21050g, 21100g, 21150g, 21200g, 21250g, 21300g, 21350g, 21400g, 21450g, 21500g, 21550g, 21600g, 21650g, 21700g, 21750g, 21800g, 21850g, 21900g, 21950g, 22000g, 22050g, 22100g, 22150g, 22200g, 22250g, 22300g, 22350g, 22400g, 22450g, 22500g, 22550g, 22600g, 22650g, 22700g, 22750g, 22800g, 22850g, 22900g, 22950g, 23000g, 23050g, 23100g, 23150g

Microsoft GH-200 시험요강:

주제	소개
주제 1	• Consume Workflows: This domain targets Software Developers and Quality Assurance Engineers and focuses on interpreting workflow runs and their outcomes. It covers identifying triggering events, reading workflow configurations, troubleshooting failures by analyzing logs, enabling debug logging, managing environment variables, caching dependencies, and passing data between jobs. Candidates also manage workflow runs, artifacts, approvals, and status badges, as well as locating workflows within repositories and leveraging organizational templated workflows.
주제 2	• Author and Maintain Workflows: This section of the exam measures skills of DevOps Engineers and Automation Specialists and covers building and managing workflows triggered by events such as pushes, scheduled times, manual triggers, and webhooks. It includes understanding workflow components like jobs, steps, actions, and runners, syntax correctness, environment variables, secrets management, and dependencies between jobs. Candidates will also demonstrate practical abilities to create workflows for various purposes, including publishing packages, using service containers, routing jobs, and deploying releases to cloud providers.
주제 3	• Manage GitHub Actions in the Enterprise: This section measures the expertise of Enterprise Administrators and Platform Engineers in distributing and managing GitHub Actions and workflows at the organizational level. It includes reuse and sharing of templates, strategies for managing reusable components via repositories and naming conventions, controlling access to actions, setting organization-wide usage policies, and planning maintenance to ensure efficient enterprise-wide deployment of GitHub Actions.
주제 4	• Author and Maintain Actions: This domain evaluates the abilities of Action Developers and Automation Engineers to select and create suitable types of GitHub Actions, such as JavaScript, Docker containers, or run steps. It emphasizes troubleshooting action code, understanding the components and file structures of actions, and using workflow commands within actions to communicate with runners, including exit code management.

시험준비에 가장 좋은 GH-200최신버전 공부문제 덤프 최신 샘플문제

Fast2test는 여러분을 성공으로 가는 길에 도움을 드리는 사이트입니다. Fast2test에서는 여러분이 안전하게 간단하게 Microsoft인증 GH-200시험을 패스할 수 있는 자료들을 제공함으로 빠른 시일 내에 IT관련지식을 터득하고 한번에 시험을 패스하실 수 있습니다.

최신 GitHub Administrator GH-200 무료 샘플문제 (Q45-Q50):

질문 # 45

As a developer, what options should you recommend to implement standards for automation reuse? (Choose two.)

- A. Create workflow templates and store them in the organization's .github repository.
- B. Store shared corporate actions in subfolders in a defined and documented internally accessible repository.
- C. Create a marketplace partition to publish reusable automation for the company.
- D. Create reusable actions and workflows that can be called from other workflows.

정답: A,D

설명:

Creating workflow templates in the organization's .github repository allows the organization to standardize workflows and make them easily reusable across multiple repositories. This ensures consistency and simplifies maintenance.

Creating reusable actions and workflows that can be called from other workflows helps modularize and standardize automation tasks. These reusable components can be maintained centrally and called from different workflows across repositories.

질문 # 46

As a developer, you created a JavaScript action. What is the best way to test your JavaScript action?

- A. Package your JavaScript action inside a docker container image and run it.
- B. Create a workflow that only executes your specific JavaScript action.
- C. Use a tool called @vercel/ncc to compile your code.
- D. Create a workflow that includes the actions/debug-javascript action.

정답: B

설명:

Testing out your JavaScript action in a workflow

You can test your action out in a workflow.

Public actions can be used by workflows in any repository. When an action is in a private repository, the repository settings dictate whether the action is available only within the same repository or also to other repositories owned by the same user or organization. Reference:

<https://docs.github.com/en/actions/tutorials/create-actions/create-a-javascript-action>

질문 # 47

Which run: command will set a step's output?

- A. run: echo \${GITHUB_OUTPUT=foo }
- B. run: echo "MY_OUTPUT=foo">> \$GITHUB_OUTPUT
- C. run: echo "::set-env name=MY OUTPUT::foo"
- D. run: export MY_OUTPUT=foo

정답: B

설명:

The \$GITHUB_OUTPUT file is used to pass data from one step to another in GitHub Actions. The echo command appends the key-value pair to this file, which sets the output variable (MY_OUTPUT) for the current step.

질문 # 48

When creating and managing custom actions in an enterprise setting, which of the following is considered a best practice?

- A. creating a separate repository for each action so that the version can be managed independently
- B. including custom actions that other teams need to reference in the same repository as application code
- C. creating a single repository for all custom actions so that the versions for each action are all the same
- D. creating a separate branch in application repositories that only contains the actions

정답: A

설명:

Managing custom actions

Choosing a location for your action

If you're developing an action for other people to use, we recommend keeping the action in its own repository instead of bundling it with other application code. This allows you to version, track, and release the action just like any other software.

Creating a separate repository for each custom action allows you to manage the versioning independently for each action. This approach provides flexibility, as each action can be updated, tested, and versioned separately, avoiding potential conflicts or dependencies between different actions.

Reference:

<https://docs.github.com/en/actions/how-to/create-and-publish-actions/manage-custom-actions>

질문 # 49

You are reaching your organization's storage limit for GitHub artifacts and packages. What should you do to prevent the storage limit from being reached? (Each correct answer presents a complete solution. Choose two.)

정답:

설명:

B.C

Explanation:

[E] To bypass GitHub's limit of 100 MB you can use Git Large File Storage (Git LFS). It stores references to your file in the repo by creating a pointer file. However, the actual file is going to be stored at a different location.

[C] Configuring the retention period for GitHub Actions artifacts and logs in your organization You can configure the retention period for GitHub Actions artifacts and logs in your organization.

By default, the artifacts and log files generated by workflows are retained for 90 days before they are automatically deleted. You can adjust the retention period, depending on the type of repository:

For public repositories: you can change this retention period to anywhere between 1 day or 90 days.

For private repositories: you can change this retention period to anywhere between 1 day or 400 days.

When you customize the retention period, it only applies to new artifacts and log files, and does not retroactively apply to existing objects. For managed repositories and organizations, the maximum retention period cannot exceed the limit set by the managing organization or enterprise.

Reference:

<https://gitprotect.io/blog/github-storage-limits/>

<https://docs.github.com/en/organizations/managing-organization-settings/configuring-the-retention-period-for-github-actions-artifacts-and-logs-in-your-organization>

질문 # 50

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Microsoft인증 GH-200시험은 중요한 IT인증자격증을 취득하는 필수시험과목입니다Microsoft인증 GH-200시험을 통과해야만 자격증 취득이 가능합니다.자격증을 많이 취득하면 자신의 경쟁력을 높여 다른능력자에 의해 대체되는 일은 면할수 있습니다.Fast2test에서는Microsoft 인증GH-200시험대비덤프를 출시하여 여러분이 IT업계에서 더 높은 자리에 오르도록 도움드립니다. 편한 덤프공부로 멋진 IT전문가의 꿈을 이루세요.

GH-200시험대비 덤프공부자료 : <https://kr.fast2test.com/GH-200-premium-file.html>

- 높은 적중율을 자랑하는 GH-200최신버전 공부문제 덤프문제 □ 검색만 하면⇒ www.dumptop.com에서[GH-

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