Numerical Analysis

**1번 문제.**

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| **program** test\_cos  **integer** i, j  **real** H(10,10), sum(10), max  *c This is a program to find the maximum of sum*  *c This is a assignment for Numerical\_Analysis*  count = 0  **do** i = 1, 10  **do** j = 1, 10  H(i,j) = COS(i\*0.7+ j + 2)/(i+j-1)  **enddo**  **enddo**  **do** i = i, 10  sum(i) = 0  **enddo**    **do** i = 1, 10  **do** j = 1, 10  sum(j) = sum(j) + H(i,j)  **enddo**  **enddo**  max = sum(1)  **do** i = 1, 10  **if** (max **.LT.** sum(i)) **then**  max = sum(i)  **endif**  **enddo**  **print** \*, "max = ", max  **stop**  **end** **program** test\_cos |

**2 - a 문제**

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| **program** prime  **integer** i, j  *c This is a program to find prime.*  *c i for prime, j for division.*  *c This is a assignment for Numerical\_Analysis*  **print** \*,"start to find prime between 1 and 300"  **do** i = 2, 300  **do** j = 2, i  **if** (mod(i,j) == 0) **exit**  **ENDDO**  **if** (i == j) **then**  **print** \*,i  **endif**  **ENDDO**  **stop**  **end** **program** prime |

**2 – b문제**

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| **program** prime  **integer** i, j, count  *c This is a program to find prime.*  *c i for prime, j for division.*  *c This is a assignment for Numerical\_Analysis*  **print** \*,"start to find 300th prime"  count = 0  i = 2  **do** **while** (count **.NE.** 300)  **do** j = 2, i  **if** (mod(i,j) == 0) **exit**    **ENDDO**  **if** (i == j) **then**  count = count + 1  **endif**  i = i + 1  **ENDDO**  **print** \*, i-1  **stop**  **end** **program** prime |

**2 – c문제**

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| **program** prime  **integer** i, j, count  *c This is a program to find prime.*  *c i for prime, j for division.*  *c This is a assignment for Numerical\_Analysis*  **print** \*,"start to find the number of prime between 1 and 10000"  count = 0  **do** i = 2, 10000  **do** j = 2, i  **if** (mod(i,j) == 0) **exit**  **ENDDO**  **if** (i == j) **then**  count = count + 1  **endif**  **ENDDO**  **print** \*, count  **stop**  **end** **program** prime |