[컴사] 유클리드 호제

GOD(
$$a,b$$
) = $d \Leftrightarrow a\cdot 2+b\cdot y = d$

(BeZout's Identity)

(D) $a = b \cdot 3 \cdot 4 \cdot 1$

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(BeZout's Identity)

while (1, >0) } g= 3%top= do 31 = toup-81.3 tup= so so = s1 51= tep-31. } top=to ti= trap - tis

[컴사] RSA

①
$$p=7, g=11,$$
② $N=p: f=77$
③ $p(N)=(p+1)(f=7)=60$
④ $p(N)>e$, $g(d(p(N),e)=1$
 $e=\{7,11,13,17,16,23,26,\\31,37,41,43,47,46,\\53,56}$
 $e=\{6,3\},56\}$
 $e=\{6,3\},56\}$

[컴사] 중간값정리

$$f(r) = x^{2} - 5$$

$$f(r) = x^{2} - 5$$

$$f(r) \times f(r) < 0$$

0)
$$L=0$$
, $R=5$

1) $f(0)=5$, $f(t)=20$

2) $f(0)=5$, $f(t)=20$

1) $f(0)=5$, $f(t)=20$

2) $f(t)=5$, $f(t)=20$

2) $f(t)=5$, $f(t)=5$

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[컴사] 페르마 소정리 (수식유도)

$$2^{2} = 2 \pmod{5}$$

$$2^{2} = 4 \pmod{5}$$

$$2^{3} = 8 = 3 \pmod{5} \pmod{5}$$

$$2^{4} = 16 = 1 \pmod{5} \iff 0 = 1 \pmod{5}$$

$$2^{5} = 32 = 2 \pmod{5} \iff 0 = 0 \pmod{5}$$

$$2^{5} = 32 = 2 \pmod{5} \iff 0 = 0 \pmod{5}$$

$$2^{5} = \frac{7!}{2!5!} = \frac{7!}{240} = \frac{7!}{2 \times 10} \pmod{1} \Rightarrow 7! \cdot 2 \cdot 10 \pmod{1}$$

$$1 + 2 = \frac{7!}{2!5!} = \frac{7!}{2 \times 120} = \frac{7!}{2 \times 10} \pmod{1} \Rightarrow 7! \cdot 2 \cdot 10 \pmod{1}$$

[컴사] 벡터

Convex Hull

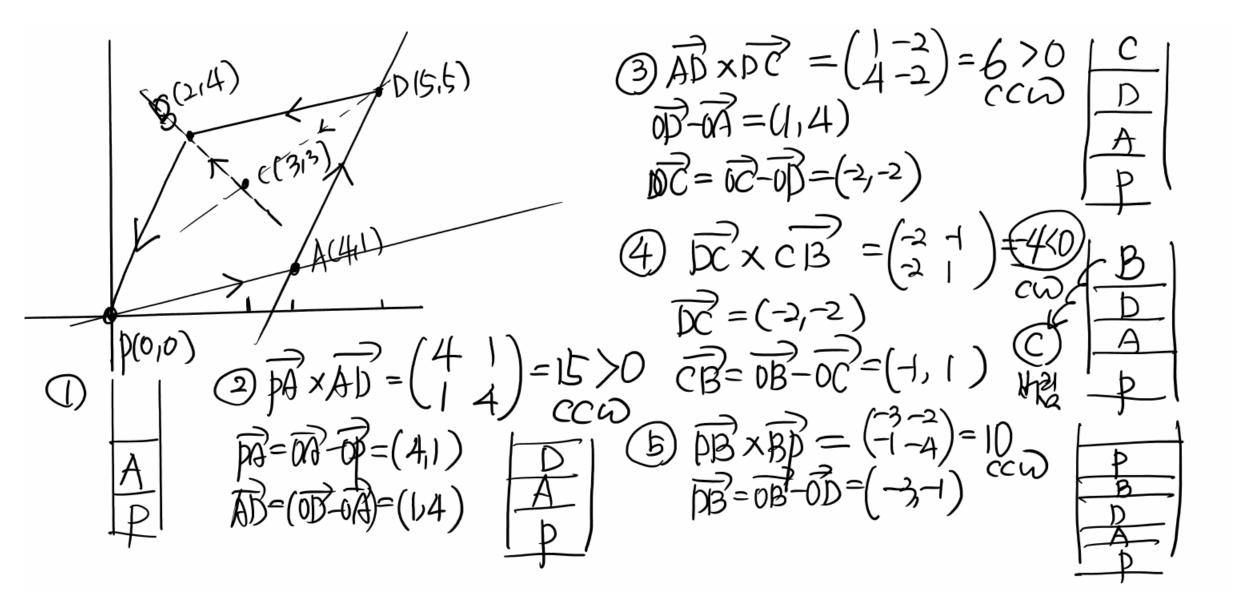
- 1. 주어진 점들 중 y좌표가 가장 작거나 혹은 가장 작은 점이 둘 이상이라 면 x좌표가 가장 작은 점을 선택한다.
- 2. 선택한 점을 기준으로 나머지 점들을 반시계 반향으로 정렬(각도+거리)
- 3. 그라함 스캔 알고리즘 적용

Graham's Scan Algorithm

- 제일 처음 선택한 점을 스택에 먼저 넣고 정렬된 점들을 차례대로 스택에 넣는다.
- 2. 새로운 점을 스택에 push할 때, 만약 스택에 두개 이상의 점이 있다면 가장 최근에 push된 두 점을 이은 직선을 기준으로 새로운 점이 왼쪽에 있다면 push, 오른쪽에 있다면 스택의 가장 위의 점을 pop.

ConvexHull(1708, 4181)

[컴사] 벡터





$$Q_m = Q_1 \cdot (1+\delta)^m$$

$$\therefore Q_m = A \cdot (1+\delta)^m$$

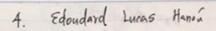
2.
$$S_m = 1 + 2 + 3 + \cdots + n$$

= $S_{m1} + m$

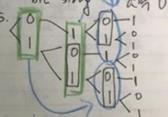
$$Q_m = Q_1 + (m\tau)d$$

$$Q_m = m$$

3. heonardo di Pisa (Liperabaci)



Bit strip V 0件 0 知信.

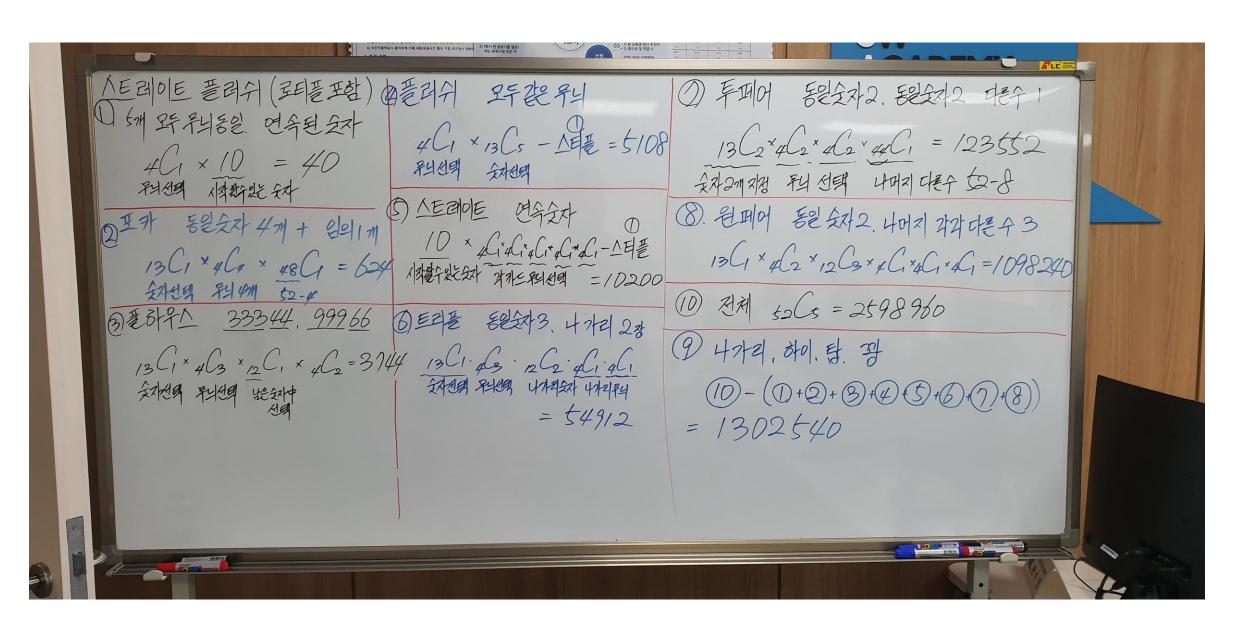


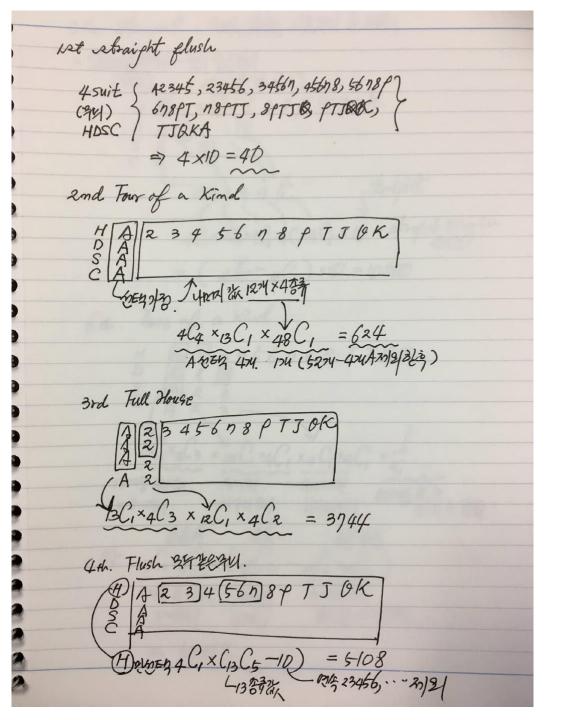
$$[nC_r = \frac{n!}{(n-r)!\delta_i}, nP_r = \frac{n!}{(n-r)!}, nH_r = n+H C_r]$$

$$\begin{array}{lll}
\text{ If } C_{r} = \frac{n!}{(n+1)! i}, & n C_{r} = \frac{(n)!}{(n-n+1)! (n-1)!} = \frac{n!}{r! (n-1)!} \\
\text{ If } C_{r} = \frac{n!}{(n-1)! i!} = \frac{n(n-1)!}{(n-1)!} = n \\
\text{ If } C_{r} = \frac{n!}{(n-1)! i!} = \frac{(n+1)n(n+1)!}{(n-1)!} = \frac{n(n+1)!}{2} \\
\text{ If } C_{r} = \frac{(n-1)!}{(n-1)!(n-1)!} = \frac{(n+1)! \cdot n \cdot r}{(n-1)!(n-1)! \cdot r \cdot n} \\
\text{ If } C_{r} = \frac{n!}{(n-1)! i!} = \frac{(n-1)! \cdot n \cdot r}{(n-1)! (n-1)! \cdot r \cdot n} \\
\text{ If } C_{r} = \frac{n!}{(n-1)!} = \frac{n+1}{n} \cdot n C_{r} \\
\text{ If } C_{r} = \frac{n}{n+1} \cdot n C_{r} \\
\text{ If } C_{r} = \frac{n+1}{r} \cdot n C_{r} \\
\text{ If } C_{r} = \frac{n+1}{r} \cdot n C_{r}
\end{array}$$

(10)
$$n_{s-1}^{2} = \frac{n_{s-1}^{2}}{(n-1)_{s-1}^{2}} = \frac{n_{s-1}^{2}}{(n-1$$

13) If (xH) = = n (k-x) = n (k+n (1-x) +n (1-x) +n (1-x) ·. f(x) = (xH) , f(1)=2 f(x) = nG + nGx + nGx + - + nGmx $f(x) = nG + 2 \cdot mGx + 3 \cdot mGx + - n \cdot nGmx$ $f(x) = nG + 2 \cdot mGx + 3 \cdot mGx + - n \cdot nGmx$ $f(x) = nG + 2 \cdot mGx + 3 \cdot mGx + - n \cdot nGmx$ in Z. k.n. Q = n.2 (50) nG= 1 mG+ Dolla 150) nG= 1 mG+ Dolla 2k.nG= n. ZmCk+=n.2





= Strangent: 3/15 3/16 1/29/10 = Strangent: 3/15 3/16 1/29/10 (1005) (strangent Hushi) H D 23 4 56 18 P F JOK D A D (15) S A D (15) 23 4 5 Straight 4C1 × 4C1 × 4C1 × 4C1 × 1D - straight 7 m Cn 4X10 = (4/15-4C1) x10 = 10200 6th. Throe of a Kind H A 2 3 45678 P T J Q K
D A 2 3
BC, x4C3 x 12C, x4C, x11C, x4C, x2,
13743 344 26 A234 A221124 G1243 2,3
x374921 34424 3442421 3125 256 13743 計学 AMEN AMEN AMEN 32年版204から3、 = 54912

10. All 52 C5 = 26/8860 7. Two pairs A 2 : 45 67 8 P TJAK

A 2 : A 2,2A 244 13C, ×4C2 × 12C, ×4C2 × 2; × 44C, = 1835, 2 8. One Parix BC1×4(2×(12C1×4C1)×(11C1×4C1)×(10C1×4C1)×31 0) = 13C1 × 4C2 × (48C3 - (Full House+Two pairms)

ATE 40124

One pair 1 756172 = 1098240 f. Nothing (Top, Hood) = 52 (5-(0+8+3+4+5+6+0+8)

```
D 12345678...n
                               an=a+(n-i)d=1+(n-1)=n
                                 an=a+(n-2)d=2+(n-2)=n
       2) 13579 ....
                                       an = a,+(n-1)d = 1+2(n-1)=2m-1
                                                         = G_2 + (n-2)d = 3 + 2(n-2) = 2n + (
            3) 124816 ---
                                                an = a, y = 1.2
           4) F(n) = F(n+)+3, F(1)=1.
                                                     部分鬼···F(m)=F(1)+(n-1)·3
                                                                                                                                = 1+(n-1).3
              6) Fin) = 4 Fin + P, Fin =1.
                   新坡 d=4d+P, d=-3
                                            : F(n)+3=4(F(n-1)+3)
                                     Lot but = 4 bm. b1= Fi+3=4.
                                            EU. bn = 4.4" = 4"
                                                                  4) F(n) = 4-3
                  6) 124J''/6  a_{m} = a_{1}tzb_{K} = 1tzK

K = 1

1234J''/6  a_{m} = a_{1}tzb_{K} = 1tzK

a_{m} = a_{1}tzb_{K} = 1tzB_{K}

a_{m} = a_{1}tzb_{K} = 1tzB_{K}

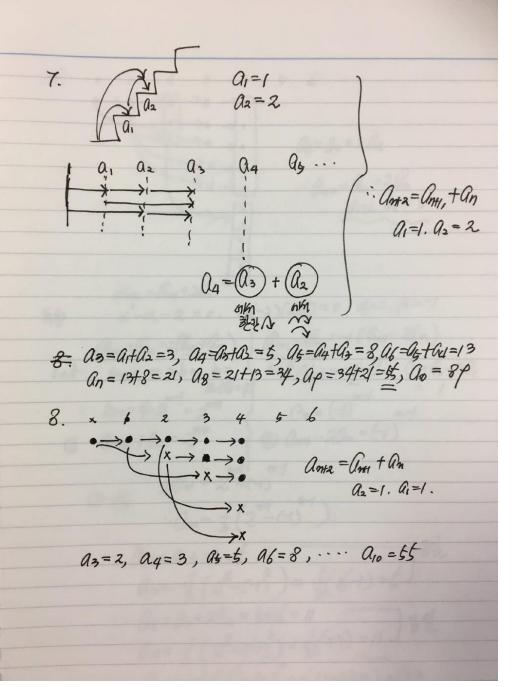
a_{m} = a_{1}tzb_{K}

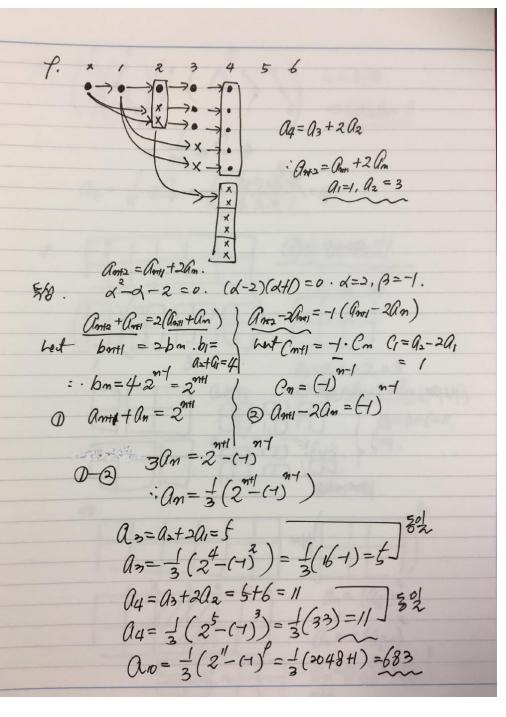
a_{m} = a_{1}tzb_{K}

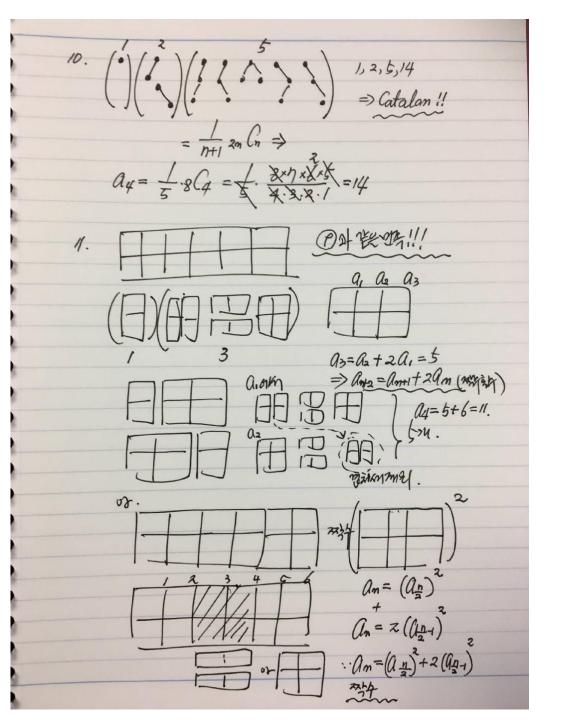
a_{m} = a_{1}tzb_{K}

a_{m} = a_{1}tzb_{K}

a_{m} = a_{1
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A= 31,2,3,4}
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      $112,4 } 11

$ 3,4 } 12

$113,4 } 13

$2,3,4 } 14

$1,2,3,4 } 15
       31,2,47
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31,2 d

31,3 d

31,2,3 d

31,2,4 d

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            any 1 317
10+ 31, 10 } 3C1
10+ 31, 10 } 3C2
                                                                           31,213,47303
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1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
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100	0	0	0	0	100	100	100	100	0	0	0	0	100	100	100	100
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