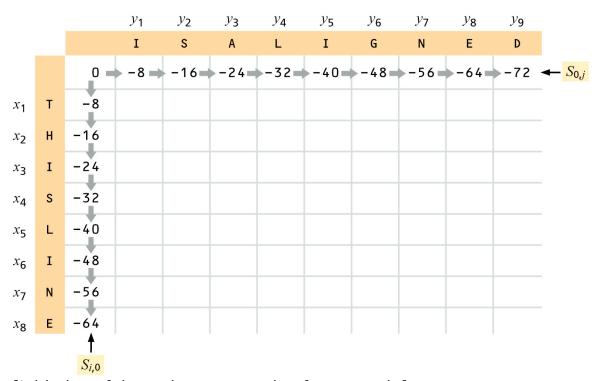
```
Ala
Arg
      - 1
             5
Asn
      - 2
            0
Asp
      - 2
           - 2
                 1
Cys
      0
           - 3
                -3 -3
Gln
                           - 3
Glu
      - 1
                 0
                      2
Gly
           - 2
                 0
                           - 3
                                     - 2
                                - 2
His
      - 2
            0
                 1
                      - 1
                           - 3
                                      0
                                          - 2
lle
           - 3
                - 3
                      - 3
                           - 1
                                - 3
                                     - 3
Leu
           - 2
                - 3
                      - 4
                           - 1
                                - 2
                                     - 3
                                               - 3
               0
Lys
                     - 1
                           - 3
                                          - 2
                                                   - 3
                                                        - 2
Met
               - 2
                     - 3
                           - 1
                                0
                                     - 2
                                          - 3
                                             - 2
                                                             - 1
Phe
                     - 3
                                - 3
           -2 -2
                     - 1
                           - 3
                                     - 1
                                          - 2
                                             - 2
                                                   - 3
                                                                   - 2
           - 1
                                             - 1
Ser
                     0
                           - 1
                                0
                                     0
                                          0
                                                   - 2
                                                        - 2
                                                             0
                                                                        - 2
                1
Thr
           - 1
                     - 1
                           - 1
                                          - 2
                                              - 2
                                                        - 1
                 0
                                - 1
                                     - 1
                                                             - 1
                                                                        - 2
Trp
      - 3
                                - 2
                                          - 2
           - 3
                - 4
                      - 4
                           - 2
                                     - 3
                                               - 2
                                                   - 3
                                                        - 2
                                                             - 3
                                                                             - 4
                                                                                       - 2
Tyr
      - 2
           - 2
                - 2
                     - 3
                           - 2
                                - 1
                                     - 2
                                          - 3
                                                2
                                                   - 1
                                                        - 1
                                                             - 2
                                                                         3
                                                                             - 3
                                                                                  - 2
                                                                                             2
                                                                   - 1
                                                                                      - 2
Val
                                          - 3 - 3
           - 3
                - 3
                     -3 -1
                                - 2
                                    - 2
                                                   3
                                                         1
                                                             - 2
                                                                        - 1
                                                                             - 2
                                                                                  - 2
                                                                                           - 3
     Ala Arg Asn Asp Cys Gln Glu Gly His Ile Leu Lys Met Phe Pro Ser Thr Trp Tyr Val
```



[Initiation of dynamic programming for a protein]

		I	S	Α	L	I	G	N	E	D
	0	-8	-16	-24	-32	-40	-48	- 56 →	-64 ⇒	-72
Т	-8	-1	-7=	-15	-23	-31	-39	-47	-55 →	-63
Н	-16	-9	-2	-9	-17	-25	-33	-40	-47 →	-55
I	-24	-12	-10	-3	-7	-13	-21	-29 →	-37 ⇒	-45
S	-32	-20	-8	-9	-5	-9	-13	-20 →	-28⇒	-35
L	-40	-28	-16	-9	-5	-3	-11	-16	-23	-31
I	-48	-36	-24	-17	- 7	-1	-7	-14	-19	-26
N	-56	-44	-32	-25	-15	-9	-1	-1	-9 ⇒	-17
E	-64	-52	-40	-33	-23	-17	-9	-1	4 🗪	-4

(B) THISLINE-|| ISALIGNED

[When the gap penalty is set to -8]

		I	S	Α	L	I	G	N	Ε	D
		→ -4 =	→ 8 →	-12 →	-16 →	-20 →	-24 →	-28 →	-32 →	-36
	I	<i>y</i> ?	M							
Т	-4	-1	-3	-7 →	-11 →	-15 →	-19	-23 →	-27 →	-31
	•	+	4	À.				1		
Н	-8	-5	-2	-5	-9 →	-13 →	-17 →	-18 →	-22 →	-26
		*			M -	<u> </u>	_			
Ι	-12	-4	-6	-3	-3	-5 →	-9 →	-13 →	-17 →	-21
	-		M .		W -			1		
S	-16	-8	0 🟓	-4	-5	-5	-5	-8	-12 →	-16
	*	*			M	_				
L	-20	-12	-4	-1	0	-3	-7 →	-8	-11 →	-15
		7 +		+		A				10/12/1
Ι	-24	-16	-8	- 5	1	4 =	0 🔿	-4 ⇒	-8 →	-12
	*	*		₩.	•		M	A		
N	-28	-20	-12	-9	-3	0	4	6 🟓	2 =	-2
	*			•	*		+			
Е	-32	-24	-16	-13	-7	-4	0	4	11 🗕	7

(B) THIS-LI-NE-|| || || --ISALIGNED

[When the gap penalty is set to -4]