Path	G(x) (cost of x from start)	H(x)	F(x)=G(x)+H(x)
S	0	7	7
S->A	3	9	12
S->D	2	5	7
S->B	3	4	7
S->E	4	3	7
S->C	5	2	7
S->G	7	0	7

Shortest Path: S-D-B-E-G

Path is admissible as $H(x) \le F(x)$ for all nodes.

Path is consistent:

S; H(S) <= C(S,D) + H(D); 7<=2+5 D; H(D) <= C(D,B) + H(B); 5<=1+4 B; H(B) <= C(B,E) + H(E); 4<=1+3

E; $H(E) \le C(E,G) + H(G)$; $3 \le 3 + 0$